

Data File : VU036299.D
Acq On : 19 Dec 2019 22:07
Operator : JC/MD
Sample : K6282-16
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFDX2

Quant Time: Dec 20 05:37:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Dec 20 05:33:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.35	114	215304	5.00	ug/L	0.06
28) Chlorobenzene-d5	9.46	117	228758	5.00	ug/L	0.01
60) 1,4-Dichlorobenzene-d4	11.84	152	97756	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.66	65	117339	6.19	ug/L	0.04
Spiked Amount	5.000	Range	40 - 130	Recovery	=	123.80%
7) Chloroethane-d5	1.98	69	100822	5.93	ug/L	0.05
Spiked Amount	5.000	Range	65 - 130	Recovery	=	118.60%
11) 1,1-Dichloroethene-d2	2.65	63	167704	6.13	ug/L	0.05
Spiked Amount	5.000	Range	60 - 125	Recovery	=	122.60%
20) 2-Butanone-d5	4.81	46	181601	51.13	ug/L	0.13
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.26%
24) Chloroform-d	5.17	84	158468	5.20	ug/L	0.06
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.00%
26) 1,2-Dichloroethane-d4	5.82	65	81349	5.08	ug/L	0.07
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.60%
32) Benzene-d6	5.84	84	276062	4.80	ug/L	0.07
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.00%
36) 1,2-Dichloropropane-d6	6.78	67	93147	5.14	ug/L	0.05
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.80%
41) Toluene-d8	7.96	98	225924	4.18	ug/L	0.03
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.60%
43) trans-1,3-Dichloropropene-	8.24	79	34495	4.63	ug/L	0.03
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.60%
46) 2-Hexanone-d5	8.70	63	147509	51.75	ug/L	0.03
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.50%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	80502	4.86	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.20%
64) 1,2-Dichlorobenzene-d4	12.22	152	85716	4.58	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.60%

Target Compounds

						Qvalue
5) Vinyl chloride	1.66	62	9331	0.326	ug/L #	73
9) Trichlorofluoromethane	2.21	101	47039	1.305	ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.65	101	2026	0.117	ug/L #	22
12) 1,1-Dichloroethene	2.66	96	32091	2.009	ug/L #	41
13) Acetone	2.81	43	15829	5.113	ug/L	87
14) Carbon disulfide	2.87	76	13867	0.259	ug/L #	86
15) Methyl Acetate	3.04	43	2486	0.397	ug/L #	53
16) Methylene chloride	3.14	84	1782	0.076	ug/L	93
17) Methyl tert-butyl Ether	3.50	73	15032	0.439	ug/L	98
18) trans-1,2-Dichloroethene	3.44	96	31534	1.885	ug/L	94
19) 1,1-Dichloroethane	3.97	63	19309	0.625	ug/L	96
22) cis-1,2-Dichloroethene	4.76	96	404448	22.539	ug/L	98
25) Chloroform	5.20	83	7836	0.235	ug/L	99
29) 1,1,1-Trichloroethane	5.42	97	2546	0.090	ug/L #	52
34) Trichloroethene	6.63	95	5024528	277.213	ug/L	98
35) Methylcyclohexane	6.78	83	23325	0.905	ug/L #	18
37) 1,2-Dichloropropane	6.78	63	10268	0.572	ug/L #	87

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Quant Title : TRACE VOA SOM01.0
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.63	75	2263	0.093	ug/L #	63
42) Toluene	8.03	91	418511	5.554	ug/L	95
47) Tetrachloroethene	8.60	164	10682	0.653	ug/L	96
49) Dibromochloromethane	8.60	129	9958	0.599	ug/L #	12
51) Chlorobenzene	9.49	112	5695	0.114	ug/L	92
59) 1,2,3-Trichloropropane	11.84	75	15889	1.333	ug/L	88
62) 1,3-Dichlorobenzene	11.86	146	18085	0.548	ug/L	97
63) 1,4-Dichlorobenzene	11.86	146	18085	0.553	ug/L	96
65) 1,2-Dichlorobenzene	12.24	146	12033	0.383	ug/L	99
69) Naphthalene	14.10	128	25816	1.250	ug/L	98

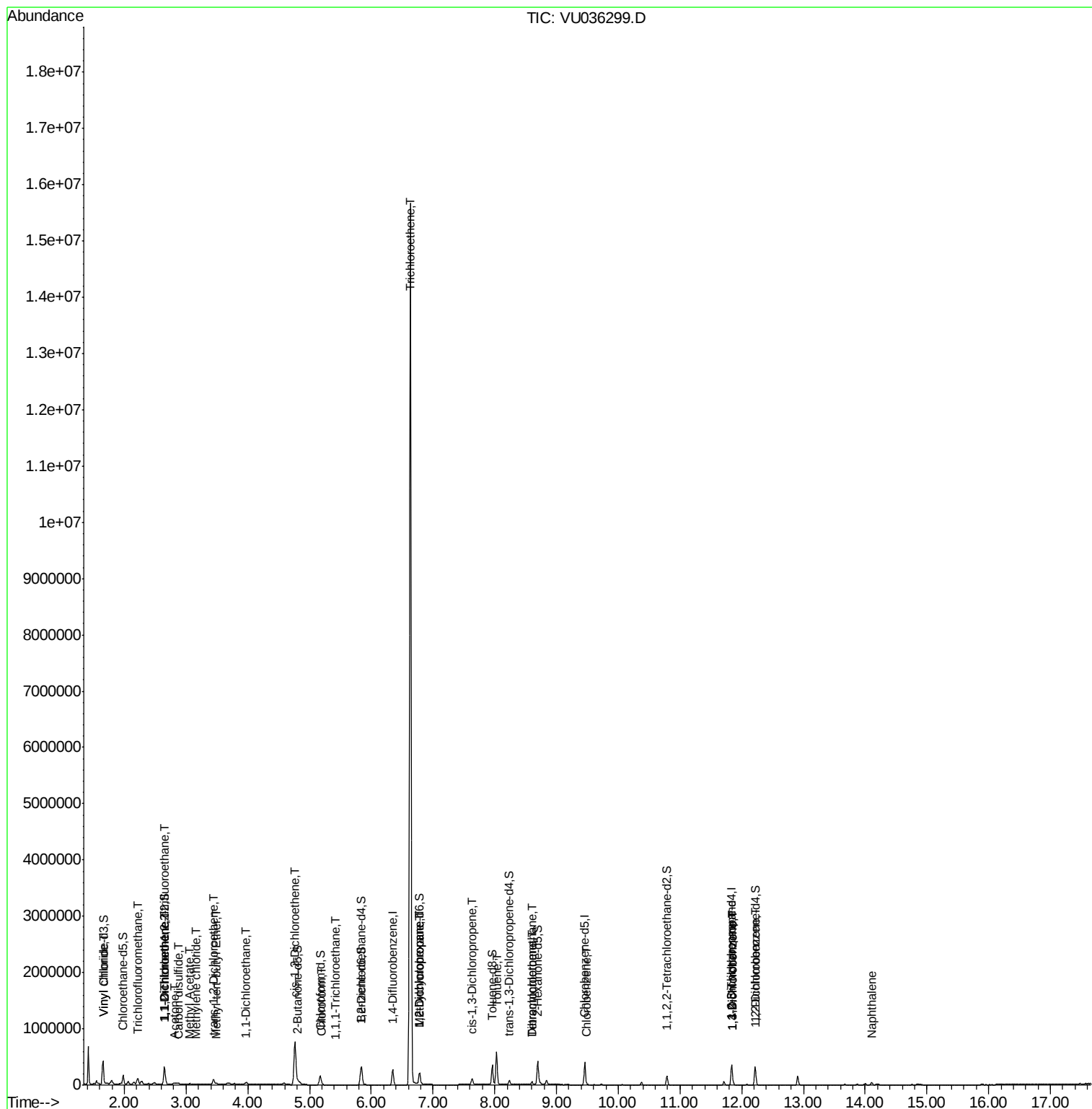
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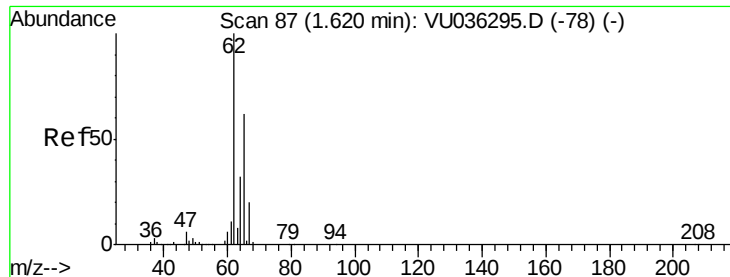
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#5

Vinyl chloride

Concen: 0.326 ug/L

RT: 1.66 min Scan# 101

Delta R.T. 0.05 min

Lab File: VU036299.D

Acq: 19 Dec 2019 22:07

Instrument :

MSVOA_U

ClientSampleId :

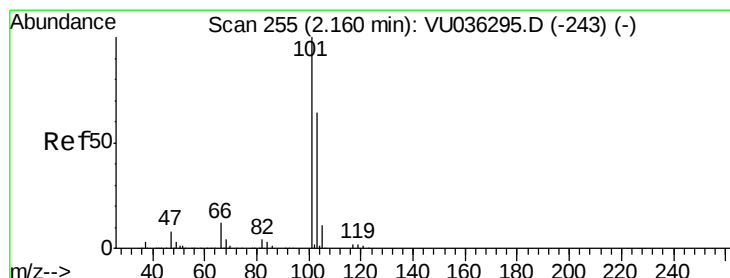
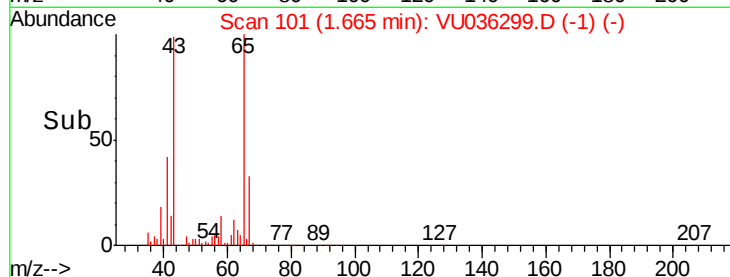
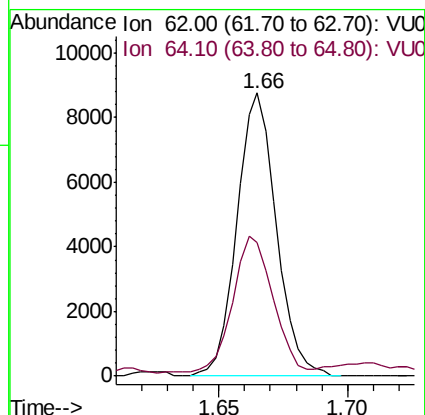
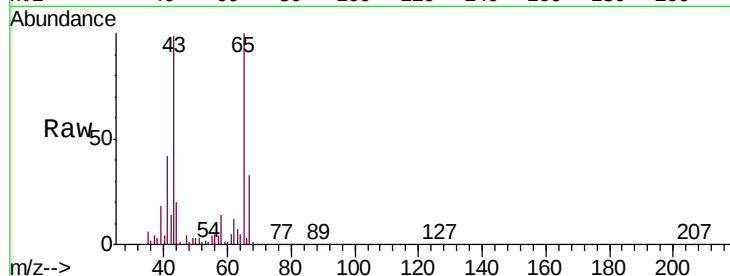
BFDX2

Tgt Ion: 62 Resp: 9331

Ion Ratio Lower Upper

62 100

64 47.1 22.4 41.6#



#9

Trichlorofluoromethane

Concen: 1.305 ug/L

RT: 2.21 min Scan# 270

Delta R.T. 0.05 min

Lab File: VU036299.D

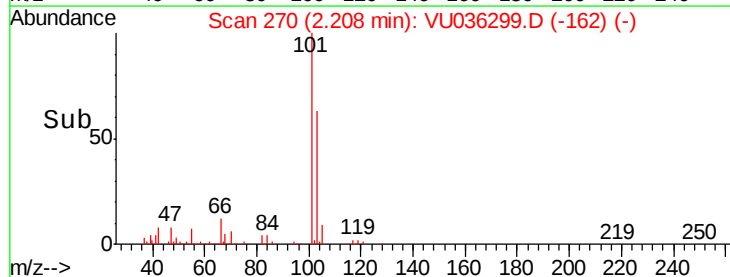
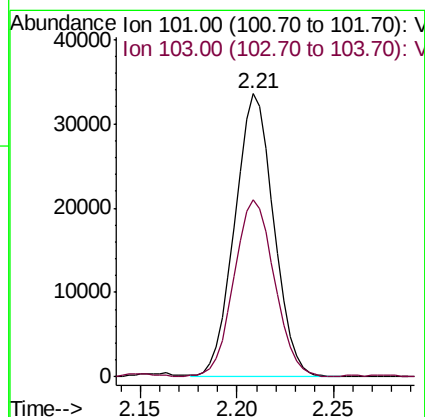
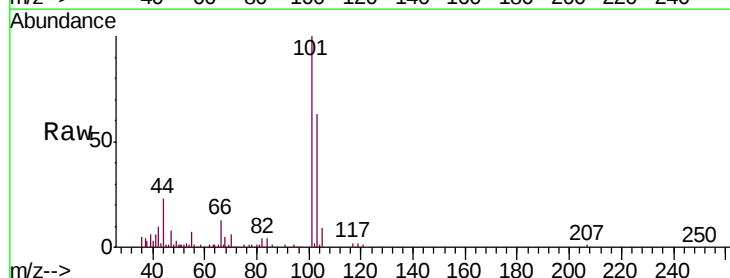
Acq: 19 Dec 2019 22:07

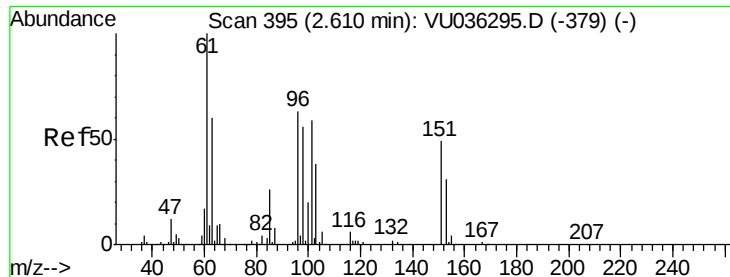
Tgt Ion: 101 Resp: 47039

Ion Ratio Lower Upper

101 100

103 65.0 50.4 75.6





#10

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

Concen: 0.117 ug/L

RT: 2.65 min Scan# 406

Delta R.T. 0.04 min

Lab File: VU036299.D

Acq: 19 Dec 2019 22:07

Instrument :

MSVOA_U

ClientSampleId :

BFDX2

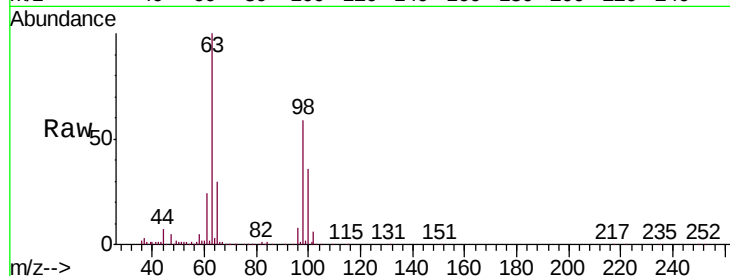
Tgt Ion: 101 Resp: 2026

Ion Ratio Lower Upper

101 100

85 0.0 35.0 52.6#

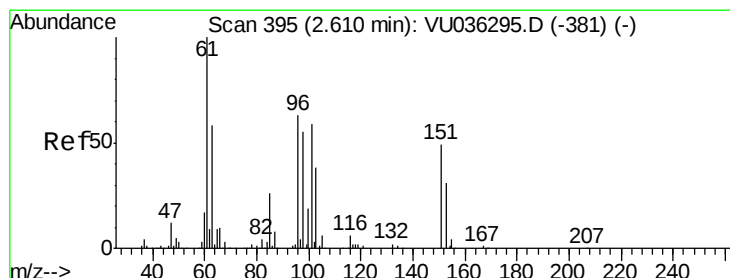
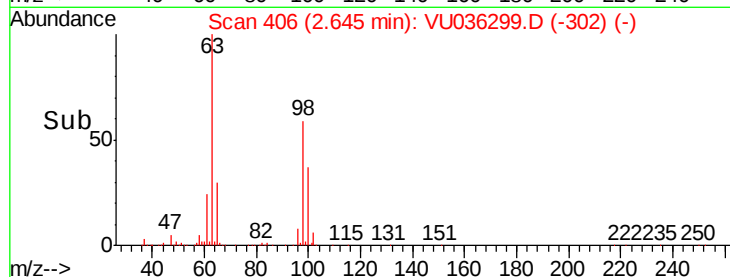
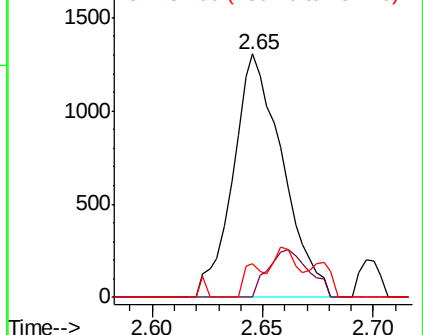
151 5.9 63.9 95.9#



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: 2.009 ug/L

RT: 2.66 min Scan# 411

Delta R.T. 0.05 min

Lab File: VU036299.D

Acq: 19 Dec 2019 22:07

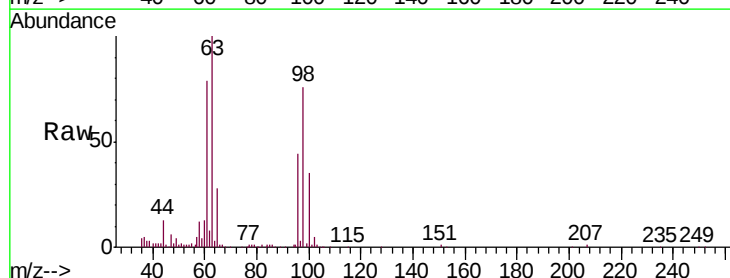
Tgt Ion: 96 Resp: 32091

Ion Ratio Lower Upper

96 100

61 178.7 114.0 211.8

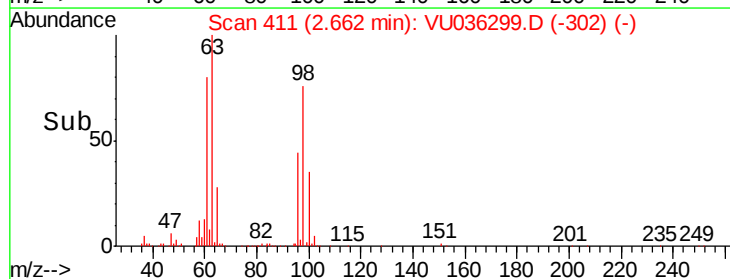
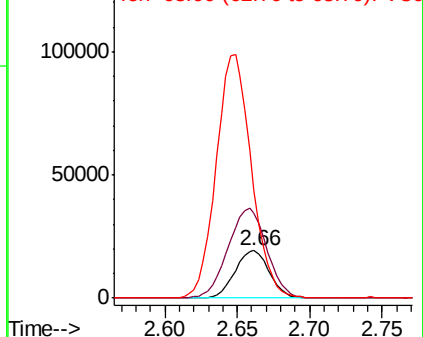
63 225.8 63.6 118.0#

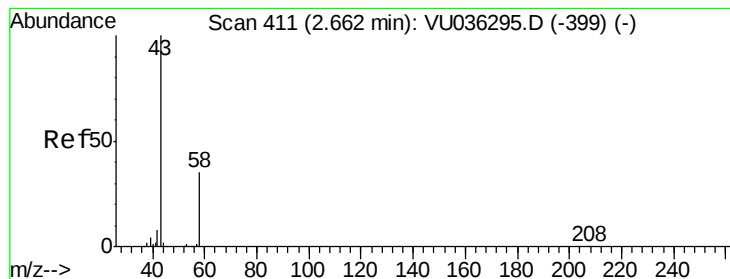


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 5.113 ug/L

RT: 2.81 min Scan# 458

Delta R.T. 0.15 min

Lab File: VU036299.D

Acq: 19 Dec 2019 22:07

Instrument :

MSVOA_U

ClientSampleId :

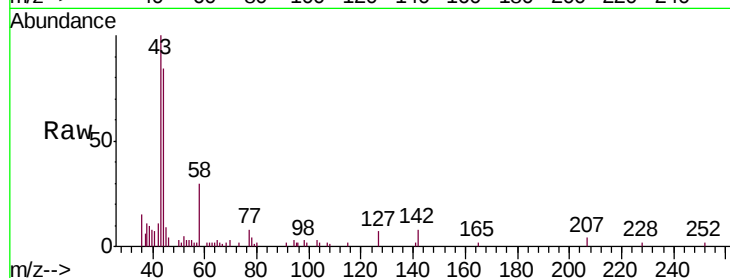
BFDX2

Tgt Ion: 43 Resp: 15829

Ion Ratio Lower Upper

43 100

58 26.4 0.0 67.6



Abundance Ion 43.05 (42.75 to 43.75): VU036299.D (-399) (-)

Ion 58.05 (57.75 to 58.75): VU036299.D (-399) (-)

2.81

8000

6000

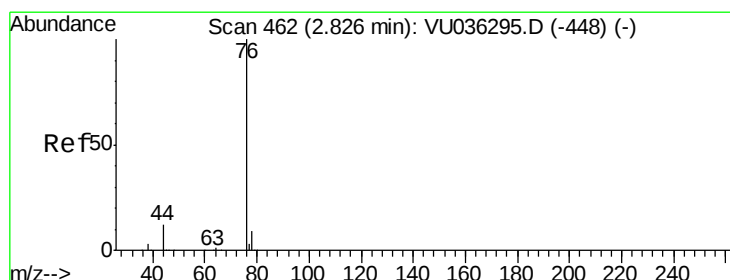
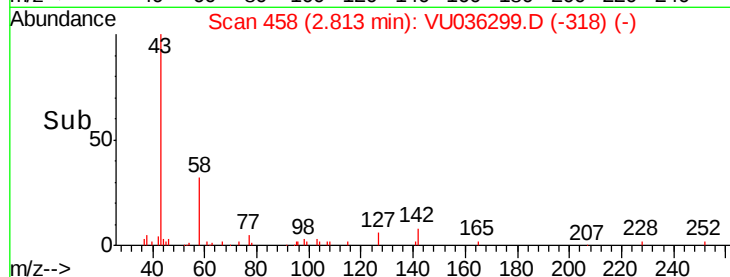
4000

2000

0

Time-->

2.70 2.75 2.80 2.85



#14

Carbon disulfide

Concen: 0.259 ug/L

RT: 2.87 min Scan# 477

Delta R.T. 0.05 min

Lab File: VU036299.D

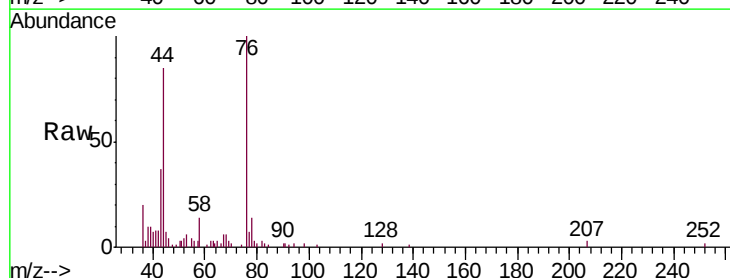
Acq: 19 Dec 2019 22:07

Tgt Ion: 76 Resp: 13867

Ion Ratio Lower Upper

76 100

78 14.0 7.1 10.7#



Abundance Ion 76.05 (75.75 to 76.75): VU036299.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VU036299.D (-369) (-)

2.87

8000

6000

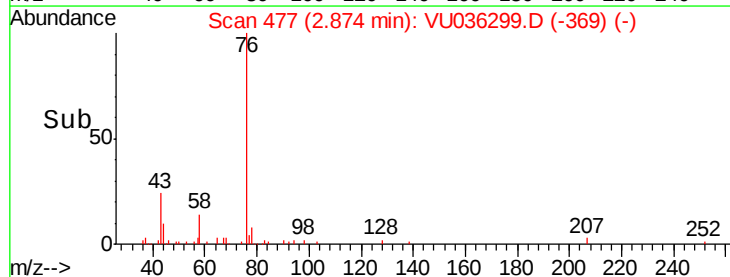
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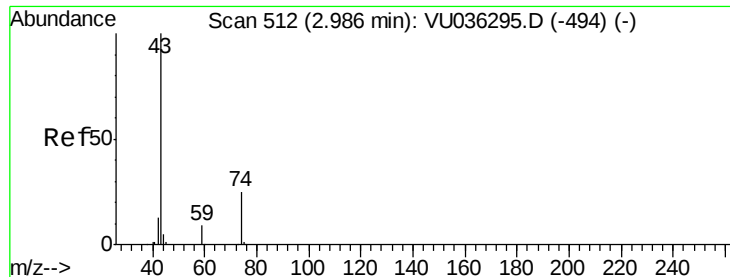
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0

Time-->

2.80 2.85 2.90 2.95

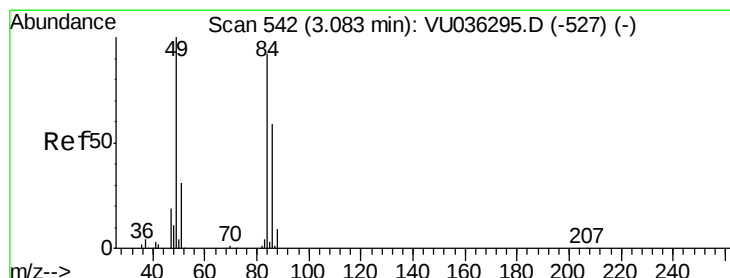
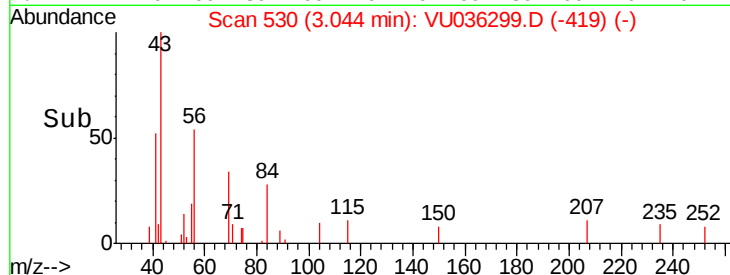
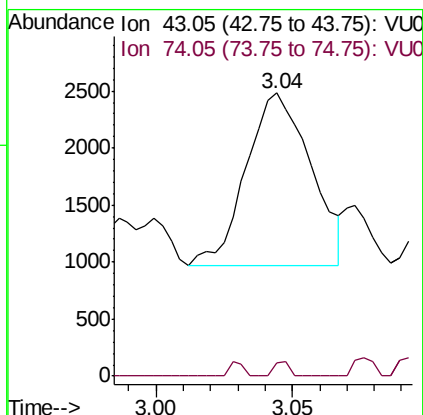
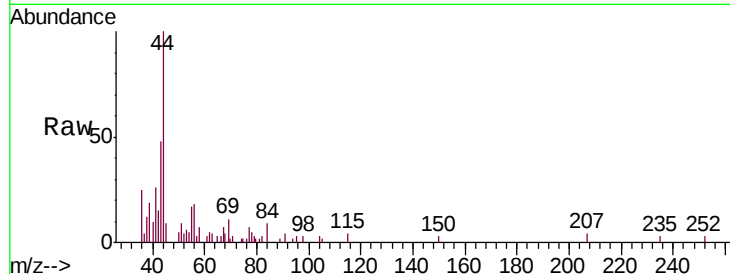




#15
Methyl Acetate
Concen: 0.397 ug/L
RT: 3.04 min Scan# 530
Delta R.T. 0.06 min
Lab File: VU036299.D
Acq: 19 Dec 2019 22:07

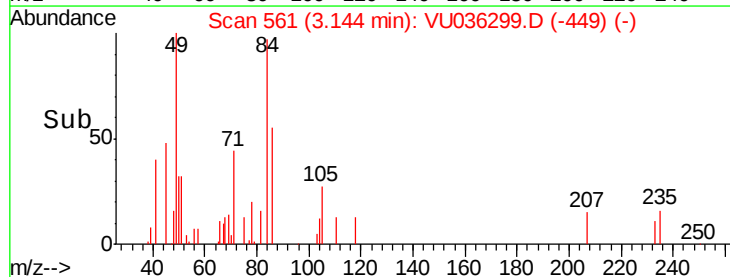
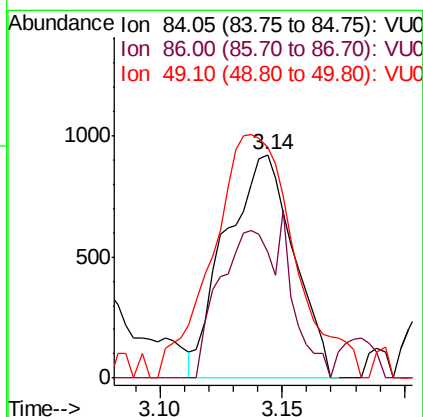
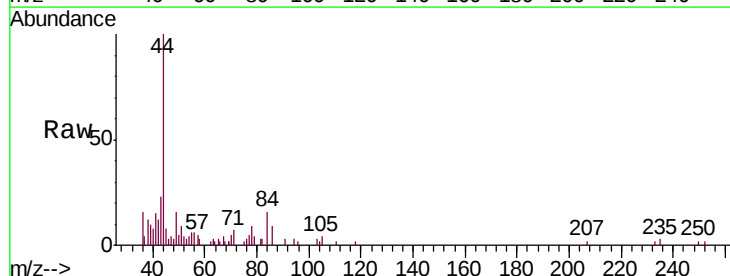
Instrument :
MSVOA_U
ClientSampleId :
BFDX2

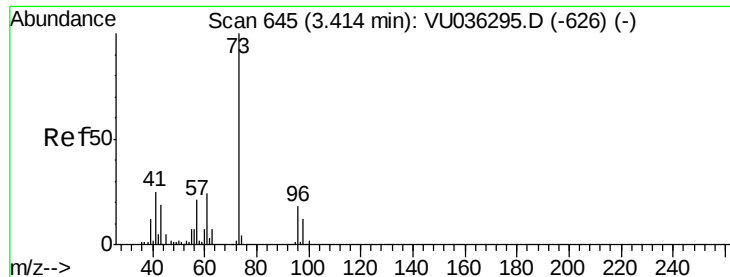
Tgt Ion: 43 Resp: 2486
Ion Ratio Lower Upper
43 100
74 2.0 20.8 31.2#



#16
Methylene chloride
Concen: 0.076 ug/L
RT: 3.14 min Scan# 561
Delta R.T. 0.06 min
Lab File: VU036299.D
Acq: 19 Dec 2019 22:07

Tgt Ion: 84 Resp: 1782
Ion Ratio Lower Upper
84 100
86 56.4 43.0 79.8
49 103.1 77.3 143.5



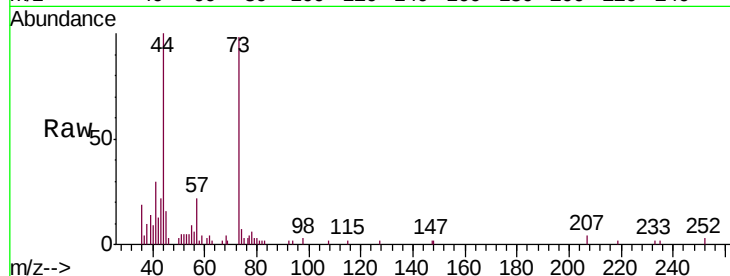


#17

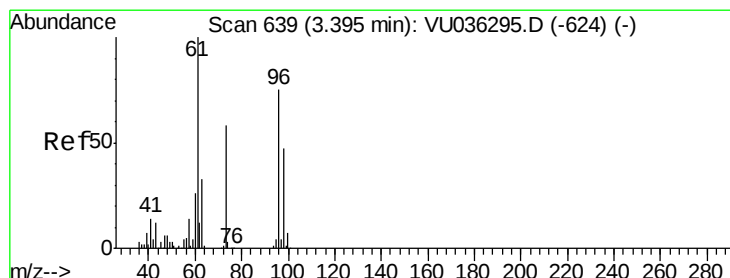
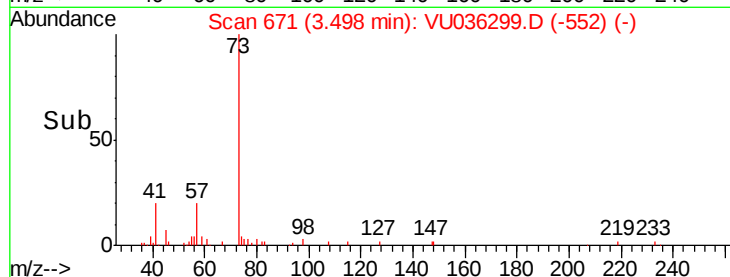
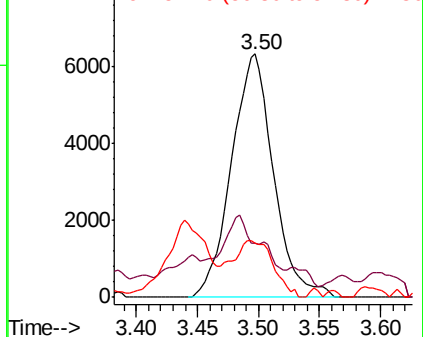
Methyl tert-butyl Ether
 Concen: 0.439 ug/L
 RT: 3.50 min Scan# 671
 Delta R.T. 0.08 min
 Lab File: VU036299.D
 Acq: 19 Dec 2019 22:07

Instrument :
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 ClientSampleId :
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Tgt Ion: 73 Resp: 15032
 Ion Ratio Lower Upper
 73 100
 43 17.5 15.3 22.9
 57 23.0 18.2 27.2



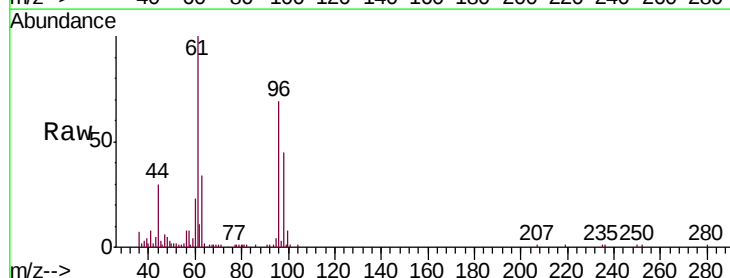
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



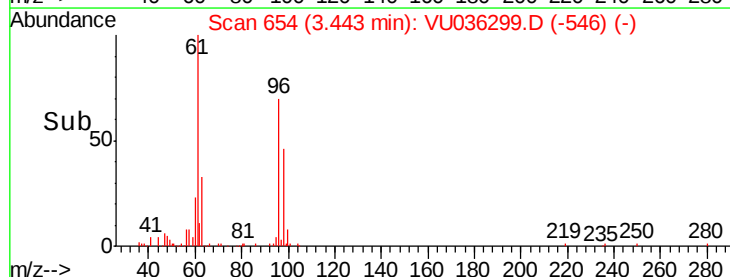
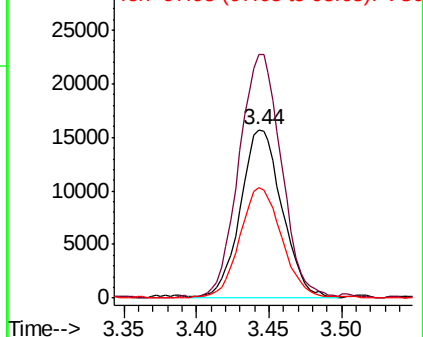
#18

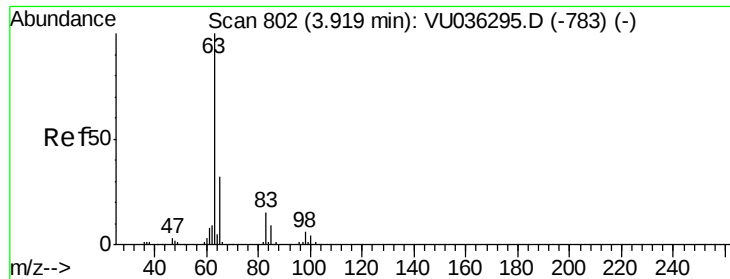
trans-1,2-Dichloroethene
 Concen: 1.885 ug/L
 RT: 3.44 min Scan# 654
 Delta R.T. 0.05 min
 Lab File: VU036299.D
 Acq: 19 Dec 2019 22:07

Tgt Ion: 96 Resp: 31534
 Ion Ratio Lower Upper
 96 100
 61 144.4 94.8 176.2
 98 65.5 46.8 86.8



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 97.95 (97.65 to 98.65): VU0

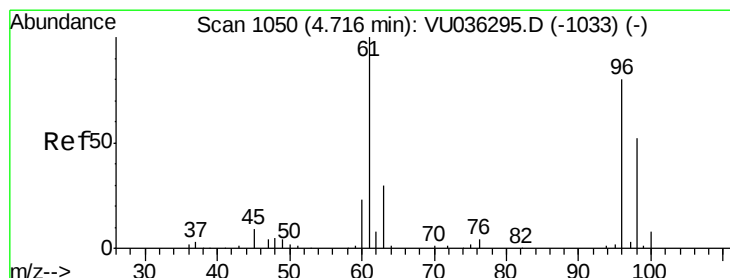
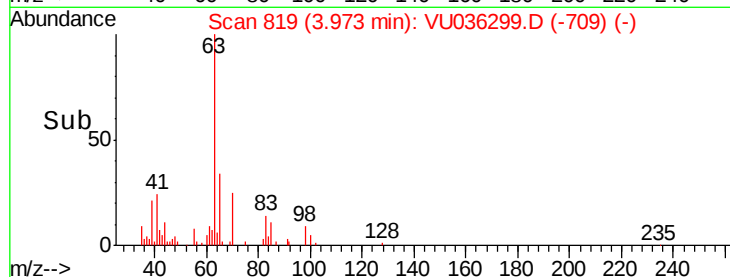
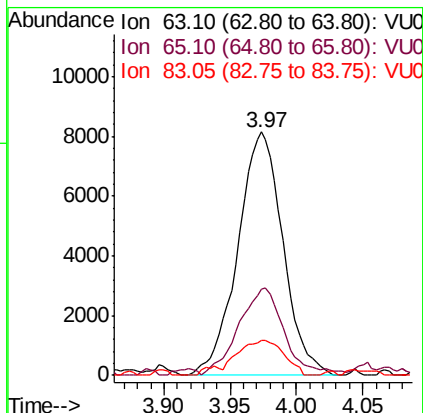
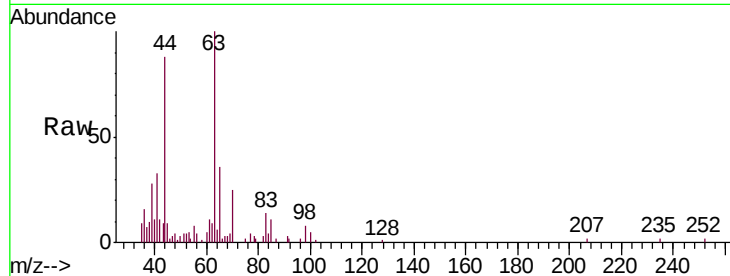




#19
 1,1-Dichloroethane
 Concen: 0.625 ug/L
 RT: 3.97 min Scan# 819
 Delta R.T. 0.05 min
 Lab File: VU036299.D
 Acq: 19 Dec 2019 22:07

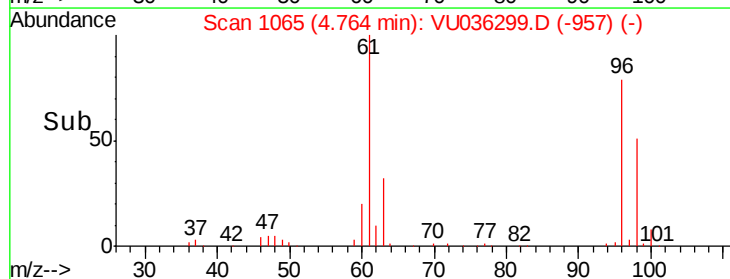
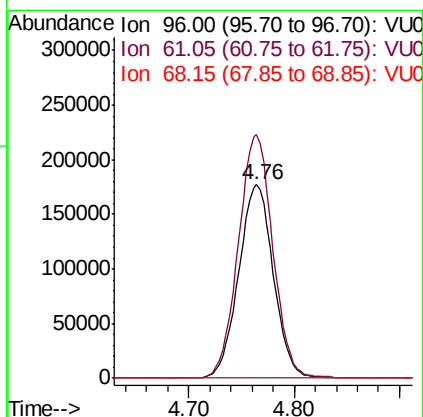
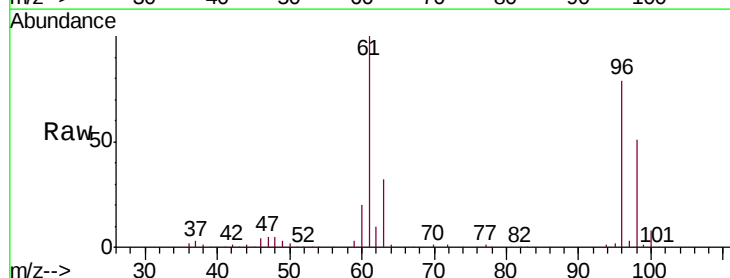
Instrument :
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 ClientSampleId :
 BFDX2

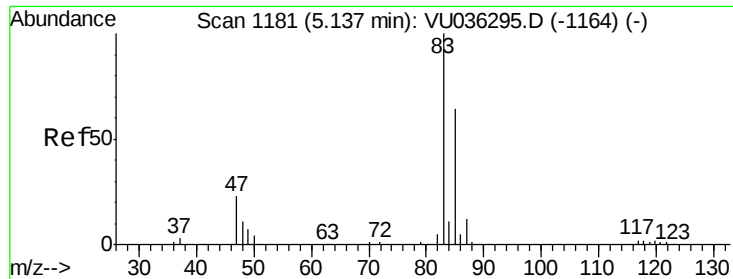
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 Ion Ratio Lower Upper
 63 100
 65 35.6 22.6 42.0
 83 14.2 9.7 18.1



#22
 cis-1,2-Dichloroethene
 Concen: 22.539 ug/L
 RT: 4.76 min Scan# 1065
 Delta R.T. 0.05 min
 Lab File: VU036299.D
 Acq: 19 Dec 2019 22:07

Tgt Ion: 96 Resp: 404448
 Ion Ratio Lower Upper
 96 100
 61 126.0 86.7 161.1
 68 0.0 0.0 0.0

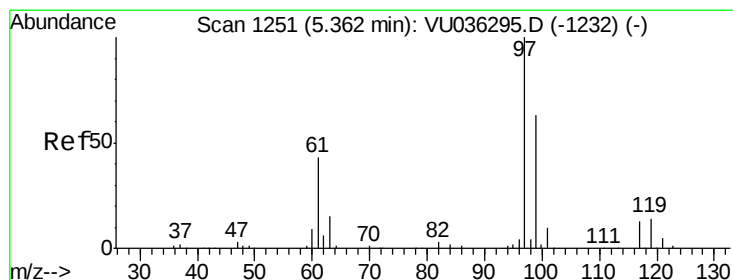
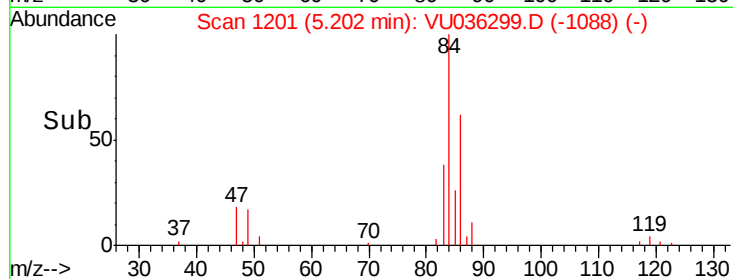
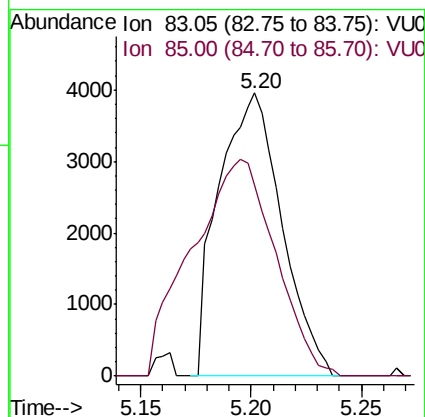
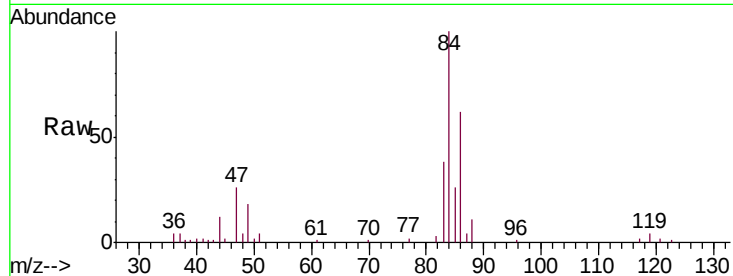




#25
Chloroform
Concen: 0.235 ug/L
RT: 5.20 min Scan# 1201
Delta R.T. 0.06 min
Lab File: VU036299.D
Acq: 19 Dec 2019 22:07

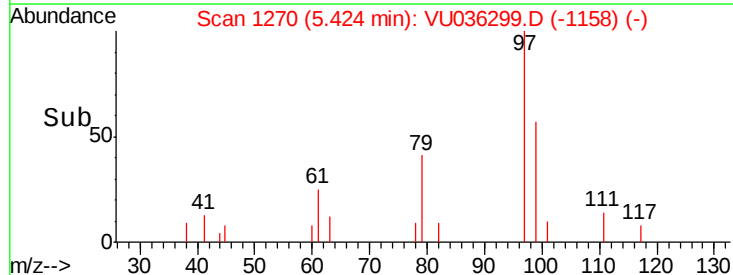
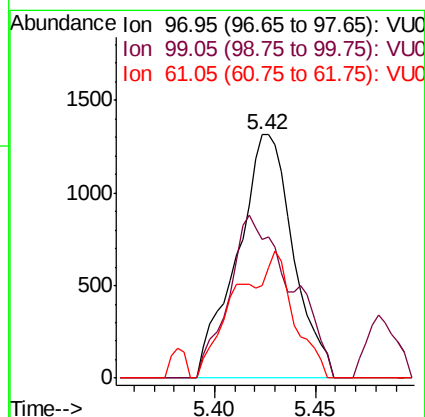
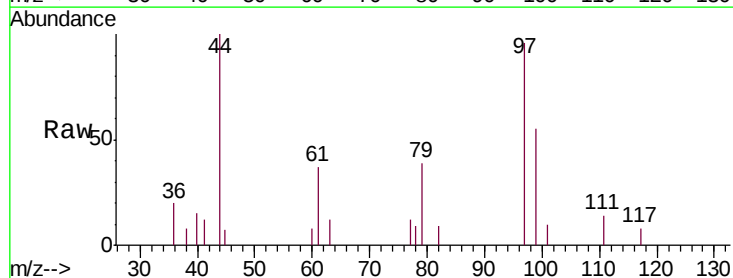
Instrument :
MSVOA_U
ClientSampleId :
BFDX2

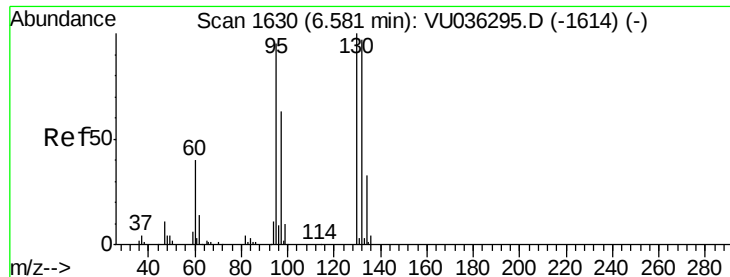
Tgt Ion: 83 Resp: 7836
Ion Ratio Lower Upper
83 100
85 67.3 47.5 88.1



#29
1,1,1-Trichloroethane
Concen: 0.090 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. 0.06 min
Lab File: VU036299.D
Acq: 19 Dec 2019 22:07

Tgt Ion: 97 Resp: 2546
Ion Ratio Lower Upper
97 100
99 13.6 51.4 77.2#
61 29.1 35.0 52.6#





#34

Trichloroethene

Concen: 277.213 ug/L

RT: 6.63 min Scan# 1646

Delta R.T. 0.05 min

Lab File: VU036299.D

Acq: 19 Dec 2019 22:07

Instrument :

MSVOA_U

ClientSampleId :

BFDX2

Tgt Ion: 95 Resp: 5024528

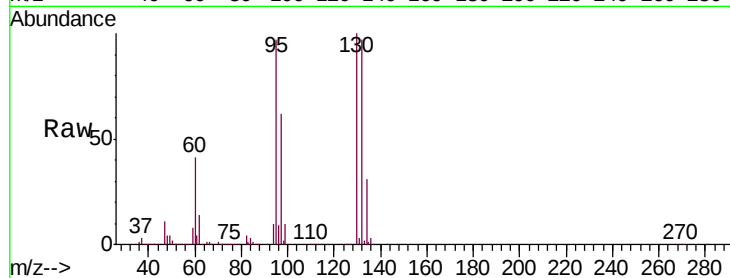
Ion Ratio Lower Upper

95 100

97 64.3 43.6 81.0

132 100.5 69.6 129.2

130 103.4 70.3 130.7

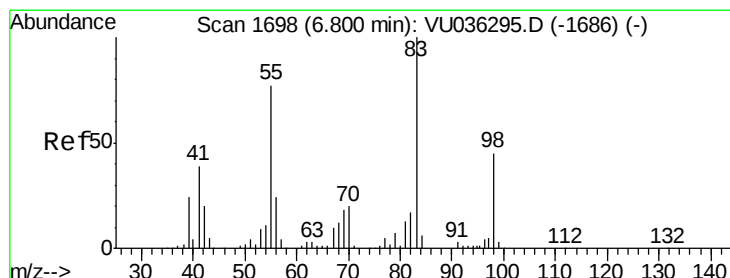
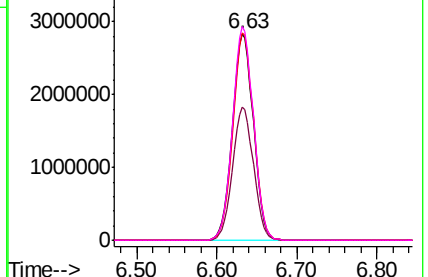
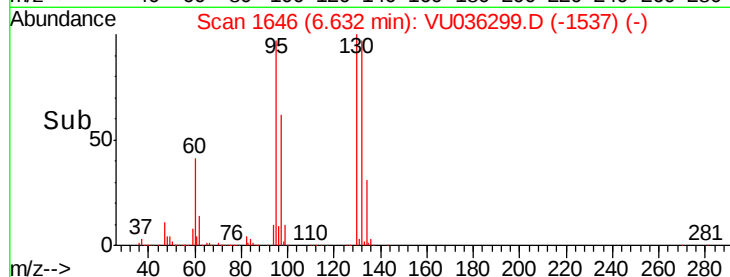


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.905 ug/L

RT: 6.78 min Scan# 1692

Delta R.T. -0.02 min

Lab File: VU036299.D

Acq: 19 Dec 2019 22:07

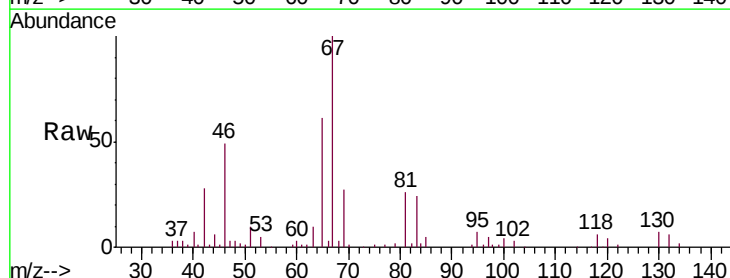
Tgt Ion: 83 Resp: 23325

Ion Ratio Lower Upper

83 100

55 0.7 62.6 94.0#

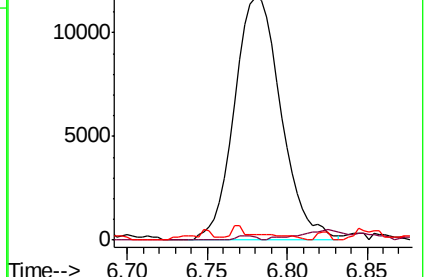
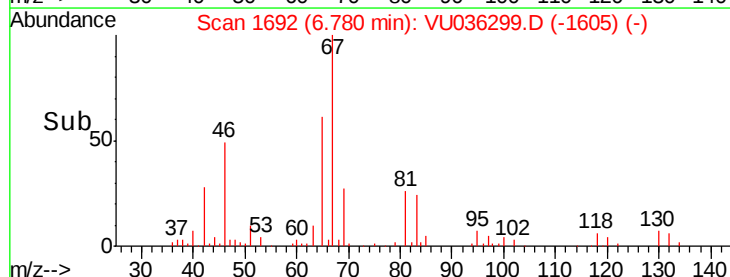
98 0.0 36.2 54.2#

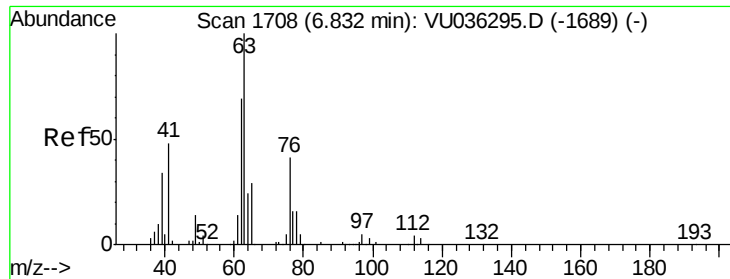


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

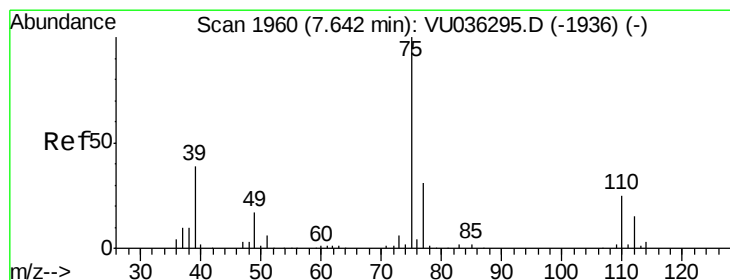
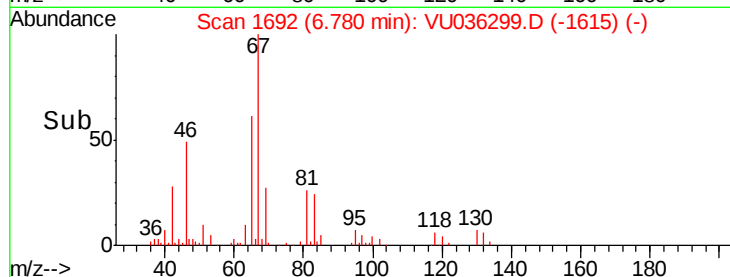
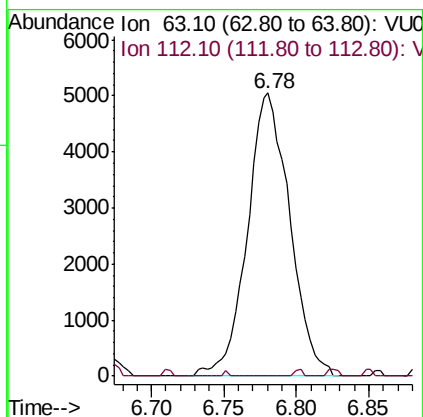
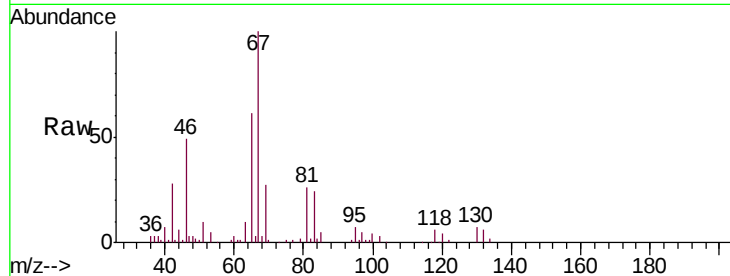




#37
 1,2-Dichloropropane
 Concen: 0.572 ug/L
 RT: 6.78 min Scan# 1692
 Delta R.T. -0.05 min
 Lab File: VU036299.D
 Acq: 19 Dec 2019 22:07

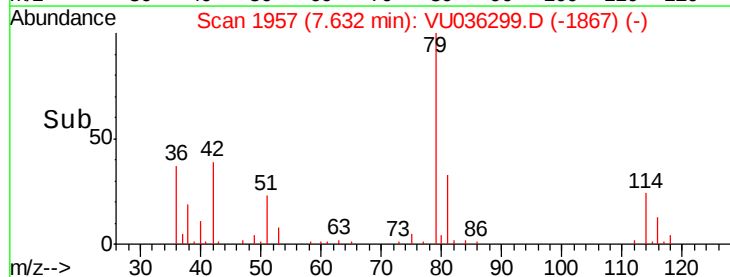
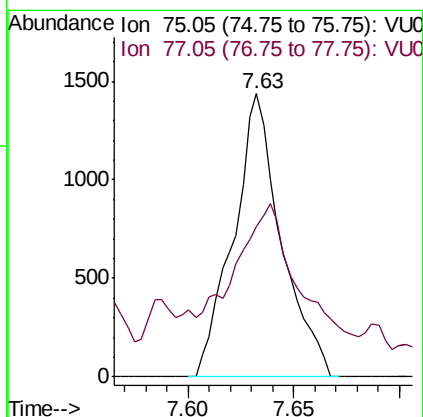
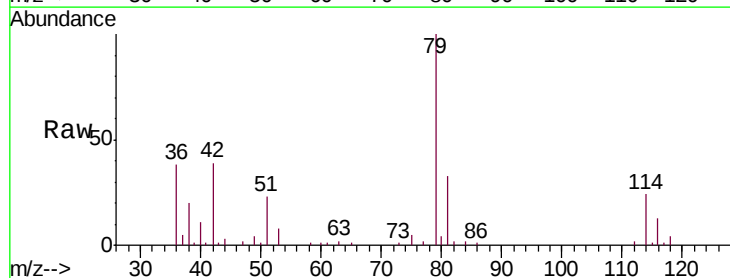
Instrument :
 MSVOA_U
 ClientSampleId :
 BFDX2

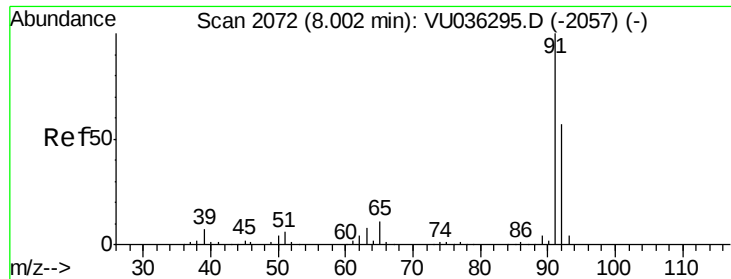
Tgt Ion: 63 Resp: 10268
 Ion Ratio Lower Upper
 63 100
 112 0.4 3.8 5.8#



#39
 cis-1,3-Dichloropropene
 Concen: 0.093 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. -0.01 min
 Lab File: VU036299.D
 Acq: 19 Dec 2019 22:07

Tgt Ion: 75 Resp: 2263
 Ion Ratio Lower Upper
 75 100
 77 53.0 22.7 42.1#





#42

Toluene

Concen: 5.554 ug/L

RT: 8.03 min Scan# 2080

Delta R.T. 0.03 min

Lab File: VU036299.D

Acq: 19 Dec 2019 22:07

Instrument :

MSVOA_U

ClientSampled :

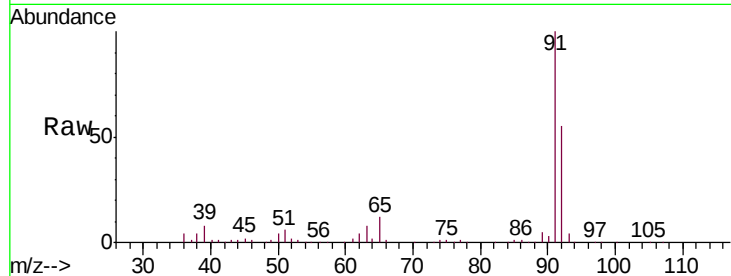
BFDX2

Tgt Ion: 91 Resp: 418511

Ion Ratio Lower Upper

91 100

92 54.8 41.2 76.6



Abundance Ion 91.15 (90.85 to 91.85): VU036299.D (-2057) (-)

Ion 92.15 (91.85 to 92.85): VU036299.D (-2057) (-)

8.03

250000

200000

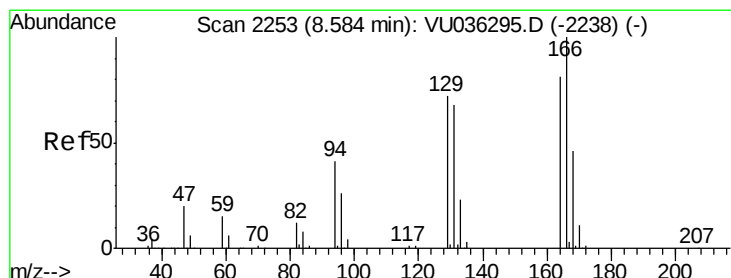
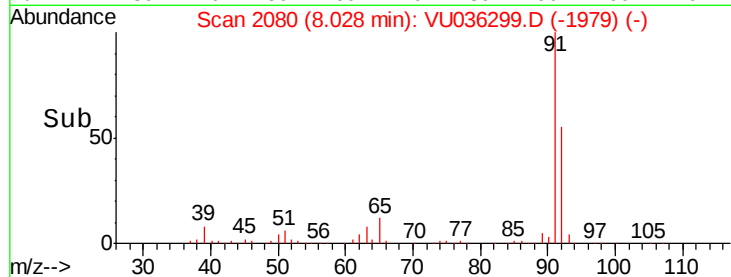
150000

100000

50000

0

Time-->



#47

Tetrachloroethene

Concen: 0.653 ug/L

RT: 8.60 min Scan# 2259

Delta R.T. 0.02 min

Lab File: VU036299.D

Acq: 19 Dec 2019 22:07

Tgt Ion: 164 Resp: 10682

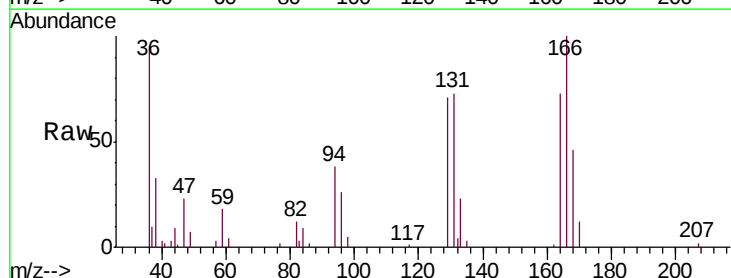
Ion Ratio Lower Upper

164 100

129 97.2 64.2 119.2

131 99.3 66.6 123.8

166 136.2 93.1 172.9



Abundance Ion 163.90 (163.60 to 164.60): VU036299.D (-2160) (-)

Ion 128.95 (128.65 to 129.65): VU036299.D (-2160) (-)

Ion 130.95 (130.65 to 131.65): VU036299.D (-2160) (-)

Ion 165.90 (165.60 to 166.60): VU036299.D (-2160) (-)

12000

10000

8000

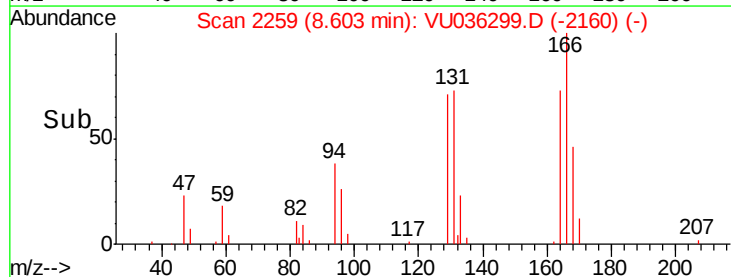
6000

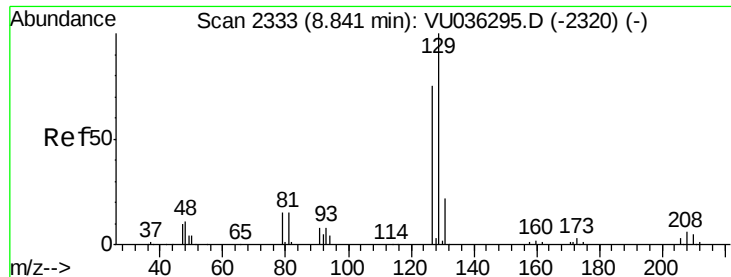
4000

2000

0

Time-->





#49

Dibromochloromethane

Concen: 0.599 ug/L

RT: 8.60 min Scan# 2259

Delta R.T. -0.24 min

Lab File: VU036299.D

Acq: 19 Dec 2019 22:07

Instrument :

MSVOA_U

ClientSampleId :

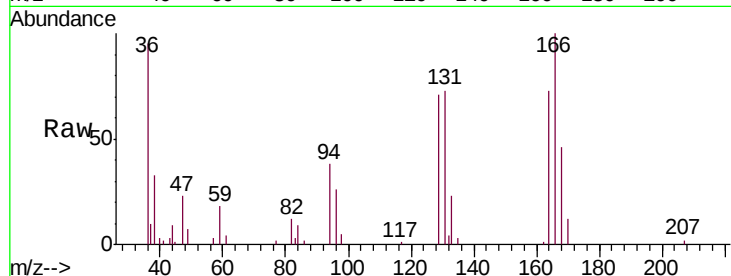
BFDX2

Tgt Ion:129 Resp: 9958

Ion Ratio Lower Upper

129 100

127 0.0 52.6 97.6#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.60

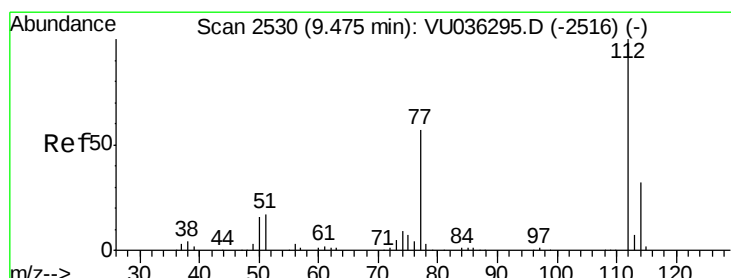
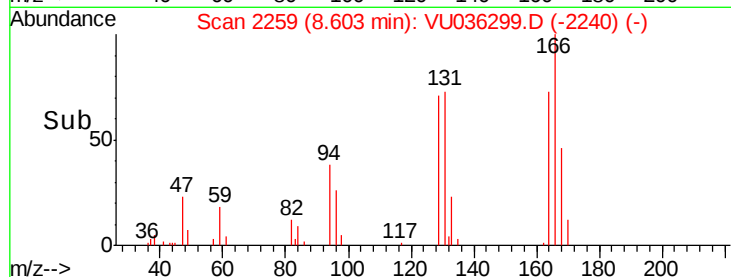
6000

4000

2000

0

Time--> 8.55 8.60 8.65



#51

Chlorobenzene

Concen: 0.114 ug/L

RT: 9.49 min Scan# 2535

Delta R.T. 0.02 min

Lab File: VU036299.D

Acq: 19 Dec 2019 22:07

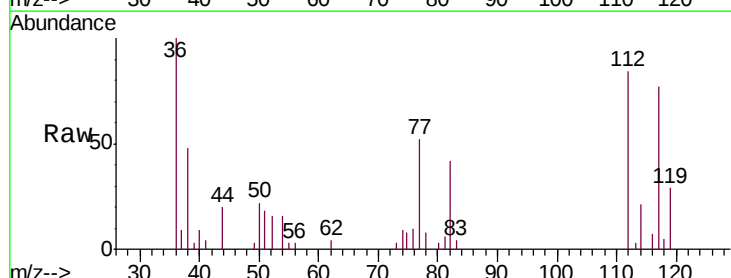
Tgt Ion:112 Resp: 5695

Ion Ratio Lower Upper

112 100

114 24.8 23.2 43.2

77 61.2 46.5 69.7



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU0

9.49

4000

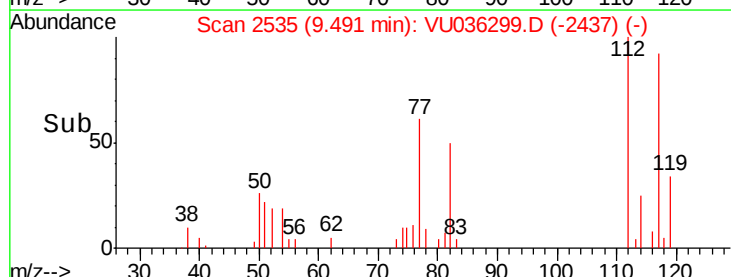
3000

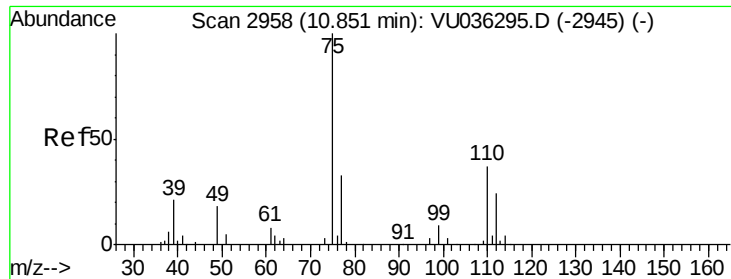
2000

1000

0

Time--> 9.45 9.50 9.55

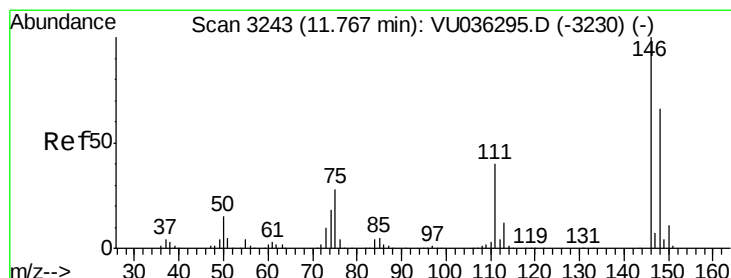
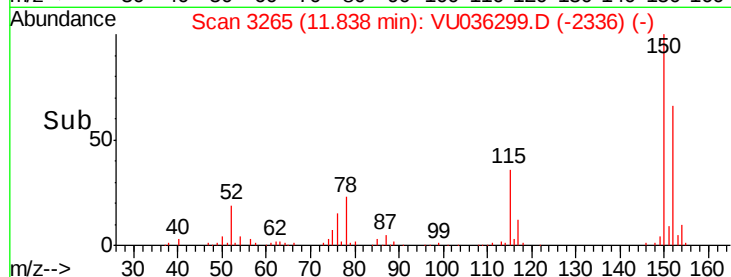
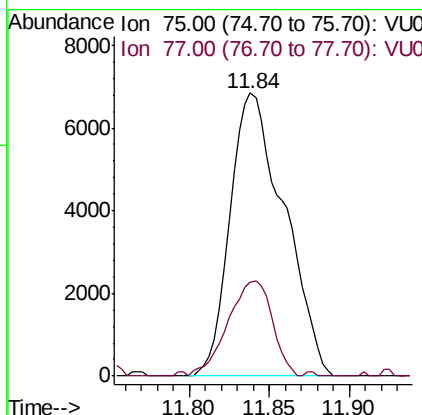
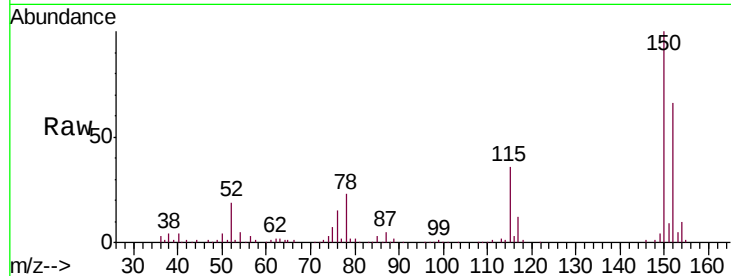




#59
 1,2,3-Trichloropropane
 Concen: 1.333 ug/L
 RT: 11.84 min Scan# 3265
 Delta R.T. 0.99 min
 Lab File: VU036299.D
 Acq: 19 Dec 2019 22:07

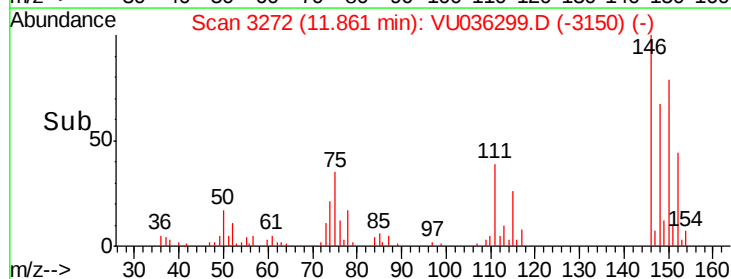
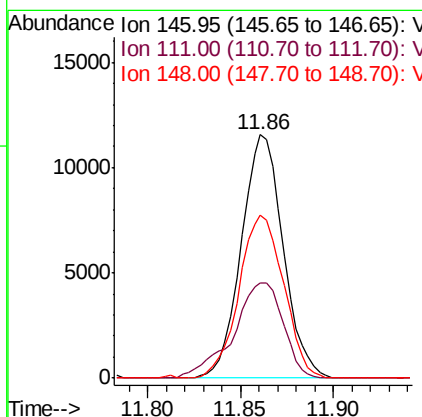
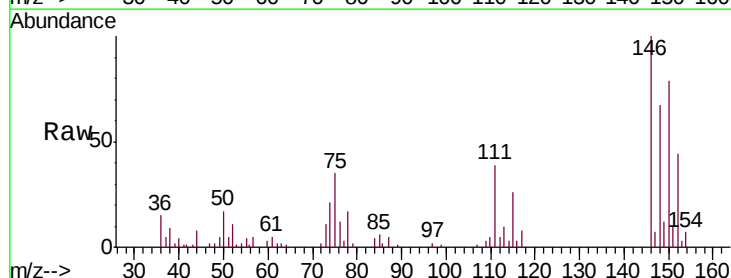
Instrument :
 MSVOA_U
 ClientSampleId :
 BFDX2

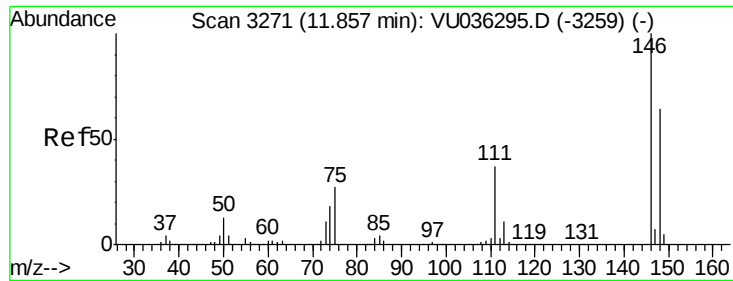
Tgt Ion: 75 Resp: 15889
 Ion Ratio Lower Upper
 75 100
 77 27.3 27.2 40.8



#62
 1,3-Dichlorobenzene
 Concen: 0.548 ug/L
 RT: 11.86 min Scan# 3272
 Delta R.T. 0.09 min
 Lab File: VU036299.D
 Acq: 19 Dec 2019 22:07

Tgt Ion: 146 Resp: 18085
 Ion Ratio Lower Upper
 146 100
 111 39.3 26.3 48.9
 148 67.0 45.1 83.9





#63

1,4-Dichlorobenzene

Concen: 0.553 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. 0.00 min

Lab File: VU036299.D

Acq: 19 Dec 2019 22:07

Instrument :

MSVOA_U

ClientSampleId :

BFDX2

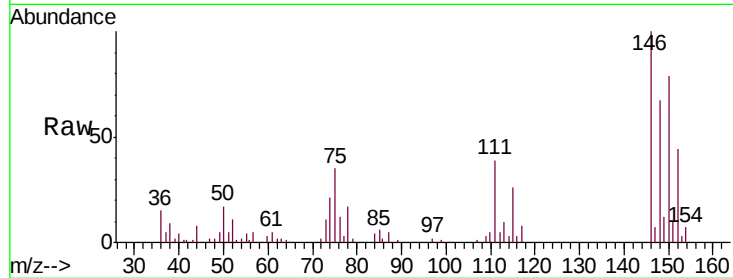
Tgt Ion:146 Resp: 18085

Ion Ratio Lower Upper

146 100

111 39.3 25.8 48.0

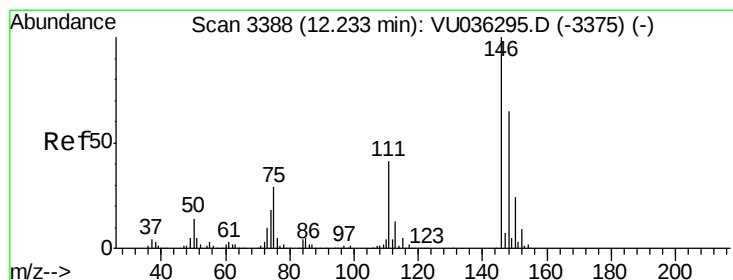
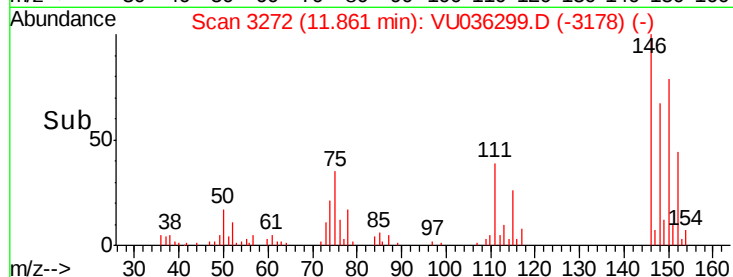
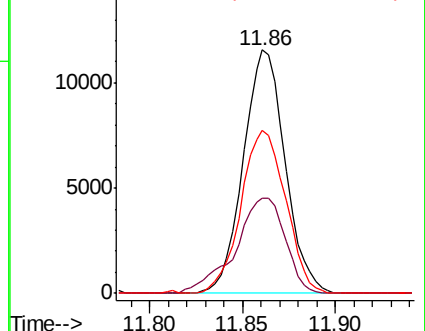
148 67.0 44.7 82.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 0.383 ug/L

RT: 12.24 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU036299.D

Acq: 19 Dec 2019 22:07

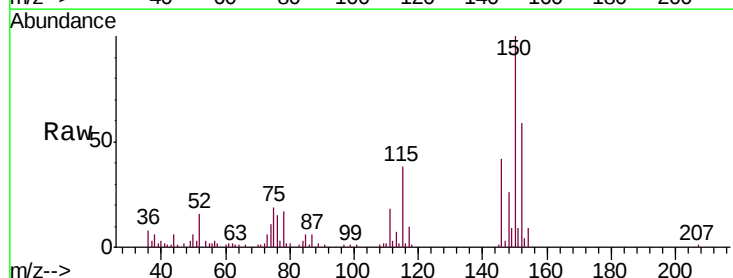
Tgt Ion:146 Resp: 12033

Ion Ratio Lower Upper

146 100

111 41.7 32.5 48.7

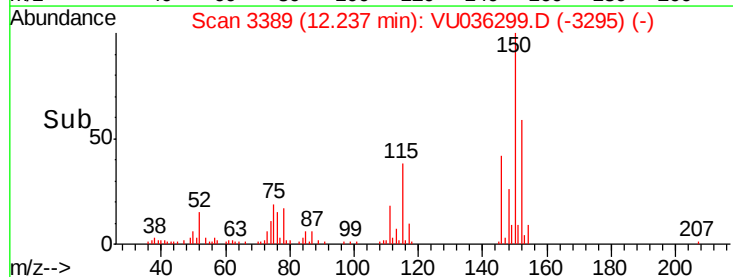
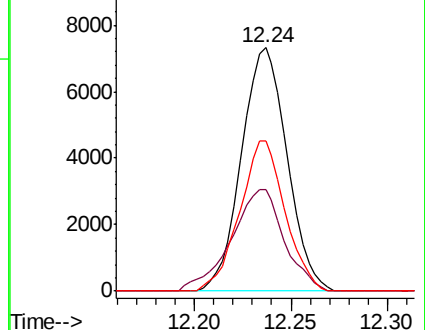
148 61.6 49.2 73.8

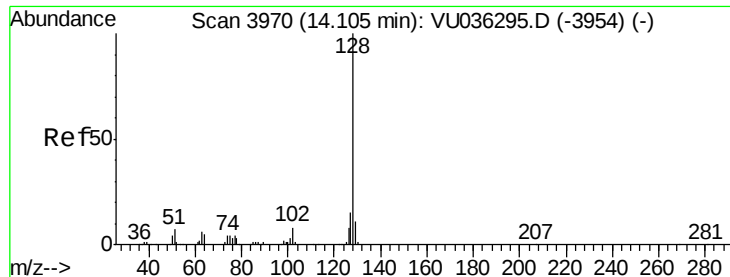


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#69

Naphthalene

Concen: 1.250 ug/L

RT: 14.10 min Scan# 3970

Delta R.T. 0.00 min

Lab File: VU036299.D

Acq: 19 Dec 2019 22:07

Instrument :

MSVOA_U

ClientSampleId :

BFDX2

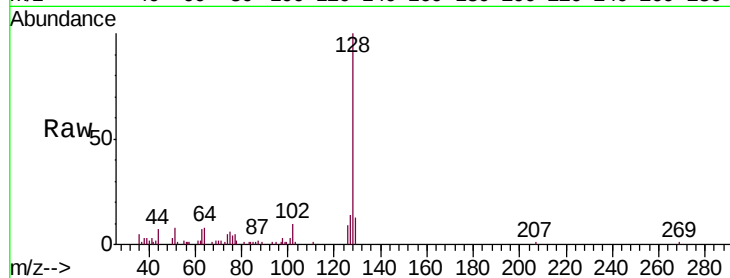
Tgt Ion:128 Resp: 25816

Ion Ratio Lower Upper

128 100

129 11.5 8.4 12.6

127 13.5 11.5 17.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

