

Data File : VU036297.D
Acq On : 19 Dec 2019 21:20
Operator : JC/MD
Sample : K6282-14
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFDX0

Quant Time: Dec 20 05:37:00 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	6.30	114	245028	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	258130	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	104402	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	123674	5.73	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	114.60%
7) Chloroethane-d5	1.93	69	103829	5.37	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	107.40%
11) 1,1-Dichloroethene-d2	2.59	63	180351	5.79	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	115.80%
20) 2-Butanone-d5	4.77	46	196843	48.69	ug/L	0.09
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.38%
24) Chloroform-d	5.13	84	166564	4.80	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.00%
26) 1,2-Dichloroethane-d4	5.76	65	87888	4.82	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.40%
32) Benzene-d6	5.78	84	303758	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.60%
36) 1,2-Dichloropropane-d6	6.74	67	100400	4.91	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.20%
41) Toluene-d8	7.93	98	253033	4.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.00%
43) trans-1,3-Dichloropropene-	8.22	79	36354	4.32	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.40%
46) 2-Hexanone-d5	8.68	63	169333	52.64	ug/L	0.01
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.28%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	86554	4.63	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.60%
64) 1,2-Dichlorobenzene-d4	12.21	152	93830	4.69	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.80%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.49	85	6925	0.253 ug/L	95
5) Vinyl chloride	1.62	62	5918	0.182 ug/L #	49
9) Trichlorofluoromethane	2.16	101	72322	1.763 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	2443	0.124 ug/L #	54
12) 1,1-Dichloroethene	2.60	96	39309	2.163 ug/L #	54
14) Carbon disulfide	2.81	76	12210	0.200 ug/L #	80
15) Methyl Acetate	2.98	43	5706	0.802 ug/L #	57
16) Methylene chloride	3.08	84	2118	0.079 ug/L	88
17) Methyl tert-butyl Ether	3.44	73	45008	1.155 ug/L	97
18) trans-1,2-Dichloroethene	3.39	96	19722	1.036 ug/L	89
19) 1,1-Dichloroethane	3.92	63	15231	0.433 ug/L	98
22) cis-1,2-Dichloroethene	4.73	96	433145	21.210 ug/L	97
25) Chloroform	5.15	83	7686	0.202 ug/L	93
29) 1,1,1-Trichloroethane	5.37	97	3329	0.105 ug/L #	87
33) Benzene	5.82	78	8438	0.106 ug/L	100
34) Trichloroethene	6.59	95	4572124	223.550 ug/L	98
35) Methylcyclohexane	6.74	83	23861	0.821 ug/L #	18

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU121919\
Quantitation Report (Not Reviewed)

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QLast Update : Fri Dec 20 05:33:55 2019
Response via : Initial Calibration

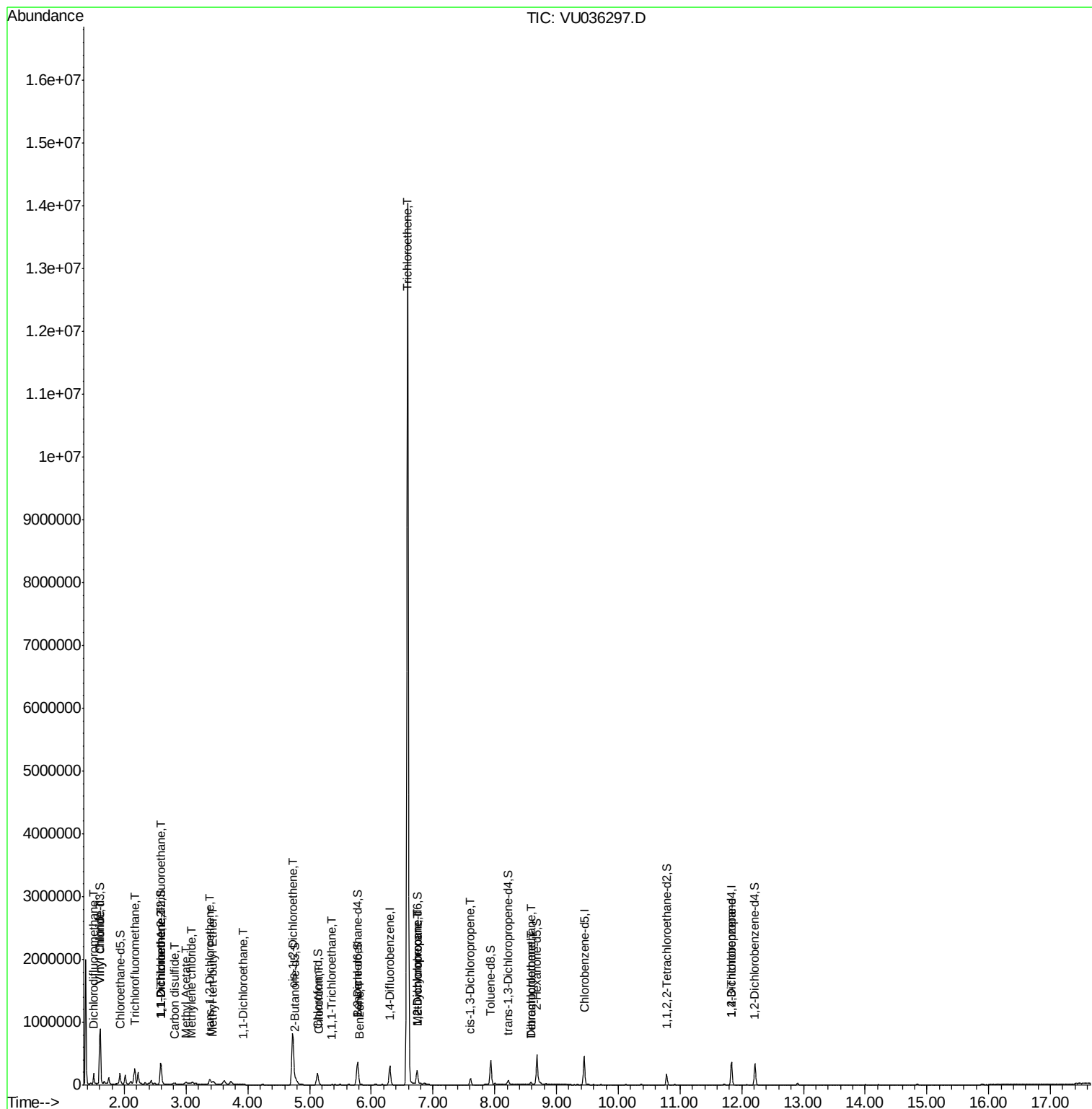
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,2-Dichloropropane	6.74	63	11100	0.548	ug/L #	89
39) cis-1,3-Dichloropropene	7.61	75	2249	0.082	ug/L #	1
47) Tetrachloroethene	8.58	164	6872	0.372	ug/L	89
49) Dibromochloromethane	8.58	129	6378	0.340	ug/L #	12
59) 1,2,3-Trichloropropane	11.83	75	12420	0.923	ug/L	96

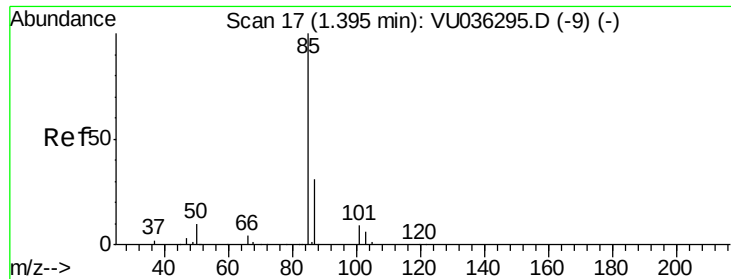
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.253 ug/L

RT: 1.49 min Scan# 48

Delta R.T. 0.10 min

Lab File: VU036297.D

Acq: 19 Dec 2019 21:20

Instrument :

MSVOA_U

ClientSampleId :

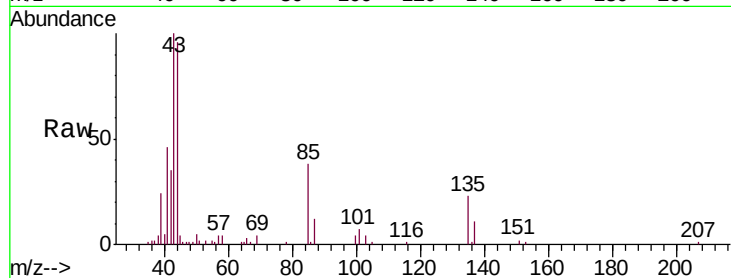
BFDX0

Tgt Ion: 85 Resp: 6925

Ion Ratio Lower Upper

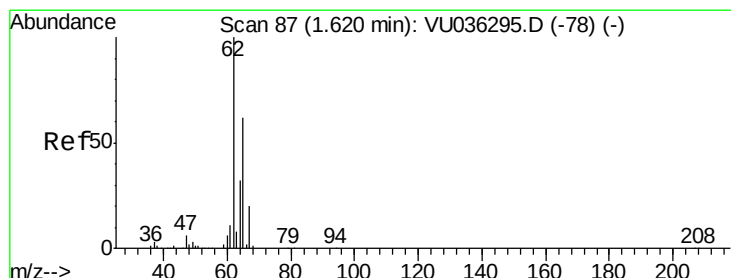
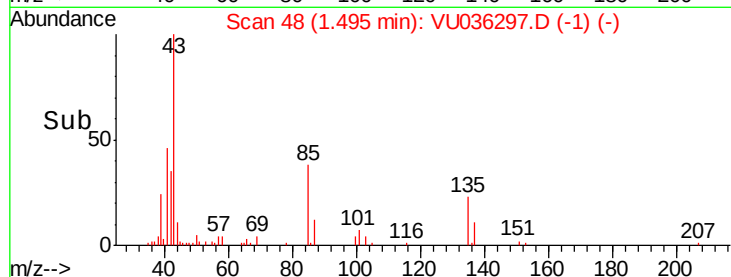
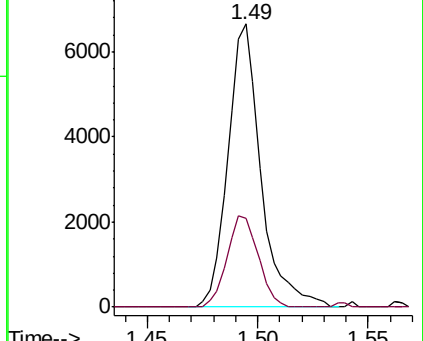
85 100

87 30.4 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#5

Vinyl chloride

Concen: 0.182 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036297.D

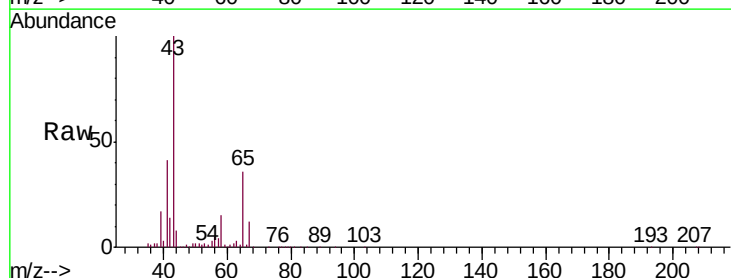
Acq: 19 Dec 2019 21:20

Tgt Ion: 62 Resp: 5918

Ion Ratio Lower Upper

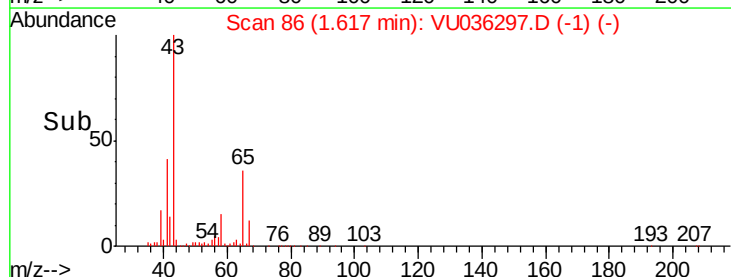
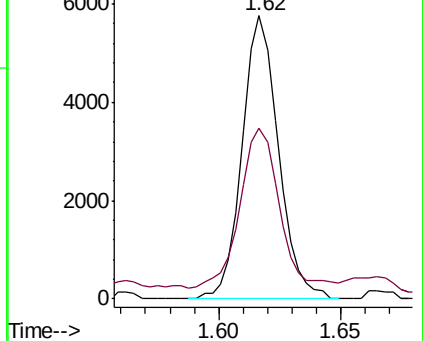
62 100

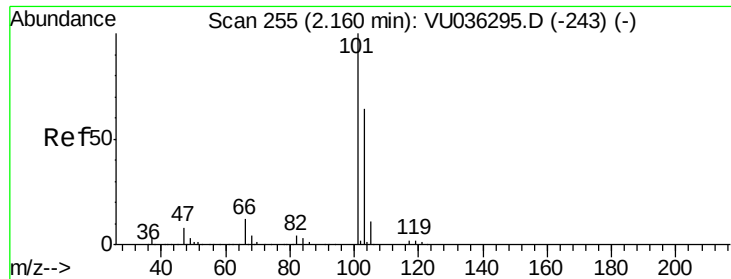
64 60.4 22.4 41.6#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#9

Trichlorofluoromethane

Concen: 1.763 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU036297.D

Acq: 19 Dec 2019 21:20

Instrument :

MSVOA_U

ClientSampleId :

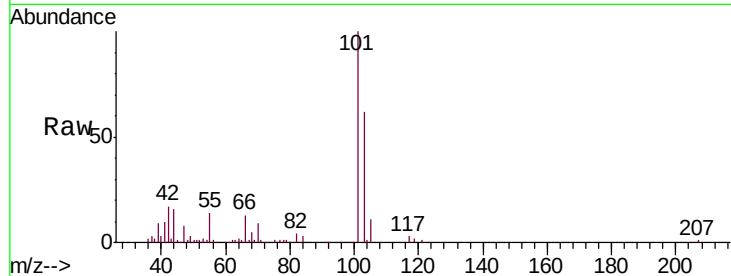
BFDX0

Tgt Ion:101 Resp: 72322

Ion Ratio Lower Upper

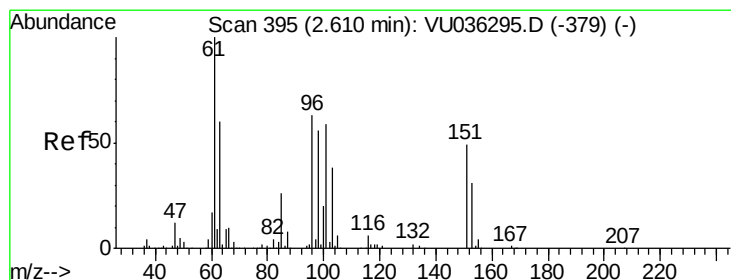
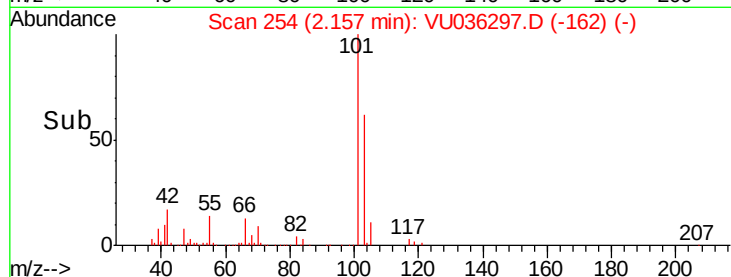
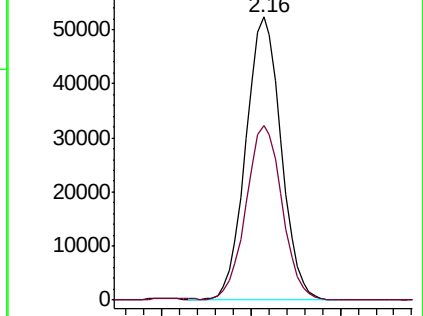
101 100

103 63.1 50.4 75.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#10

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

Concen: 0.124 ug/L

RT: 2.60 min Scan# 391

Delta R.T. -0.01 min

Lab File: VU036297.D

Acq: 19 Dec 2019 21:20

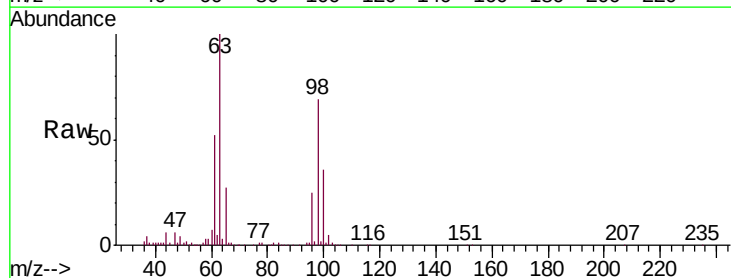
Tgt Ion:101 Resp: 2443

Ion Ratio Lower Upper

101 100

85 24.4 35.0 52.6#

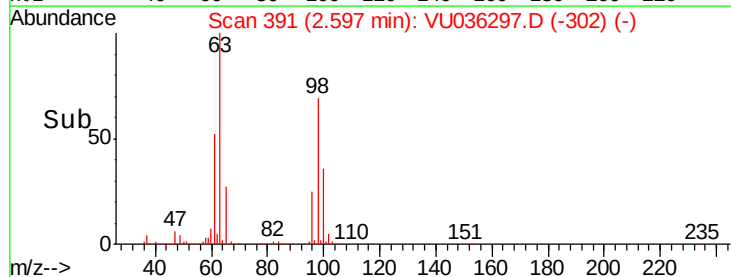
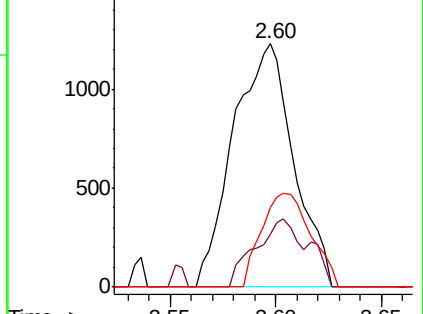
151 31.4 63.9 95.9#

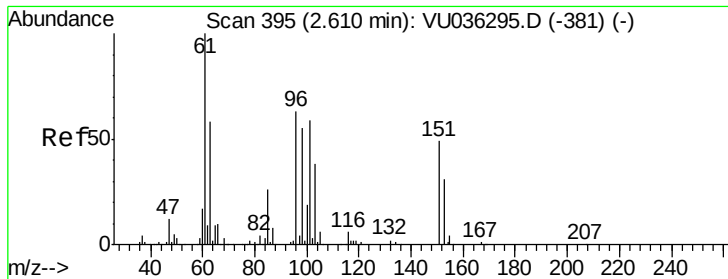


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V

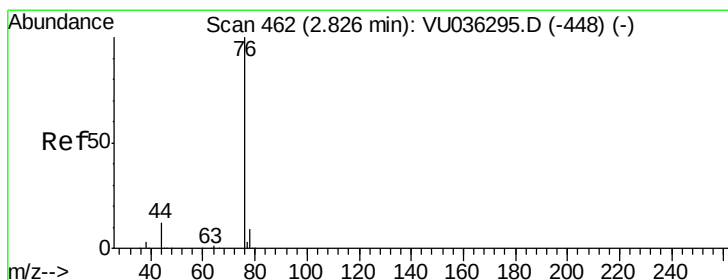
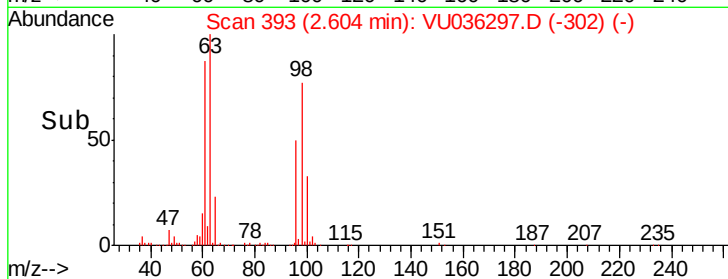
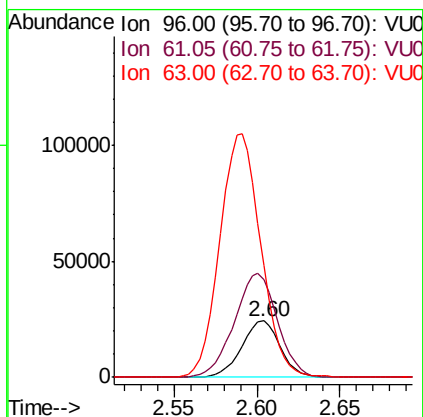
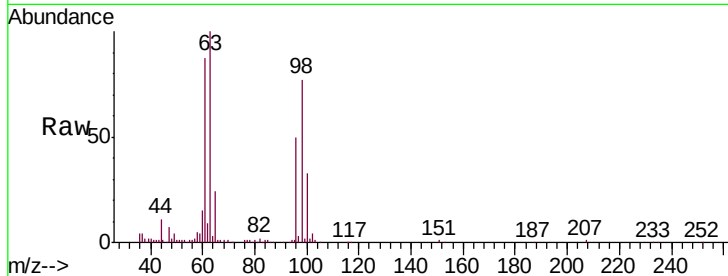




#12
 1,1-Dichloroethene
 Concen: 2.163 ug/L
 RT: 2.60 min Scan# 393
 Delta R.T. -0.01 min
 Lab File: VU036297.D
 Acq: 19 Dec 2019 21:20

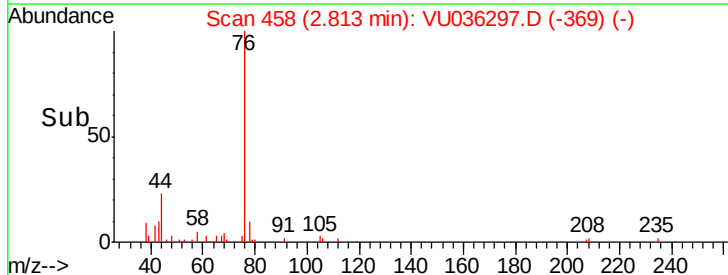
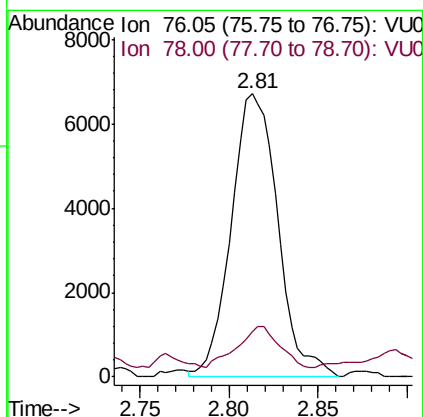
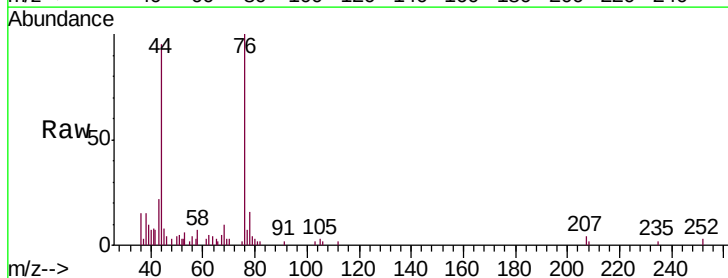
Instrument :
 MSVOA_U
 ClientSampleId :
 BFDX0

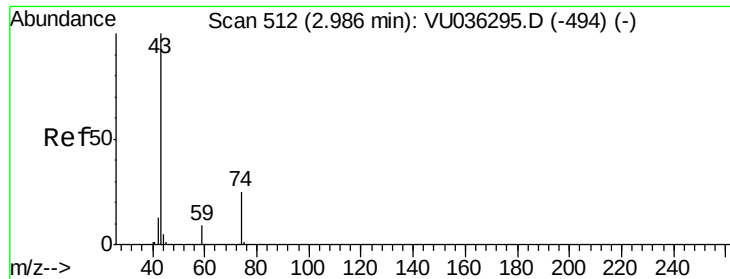
Tgt Ion: 96 Resp: 39309
 Ion Ratio Lower Upper
 96 100
 61 172.7 114.0 211.8
 63 198.8 63.6 118.0#



#14
 Carbon disulfide
 Concen: 0.200 ug/L
 RT: 2.81 min Scan# 458
 Delta R.T. -0.01 min
 Lab File: VU036297.D
 Acq: 19 Dec 2019 21:20

Tgt Ion: 76 Resp: 12210
 Ion Ratio Lower Upper
 76 100
 78 15.9 7.1 10.7#

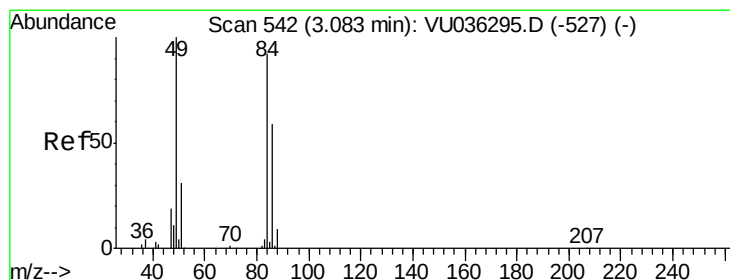
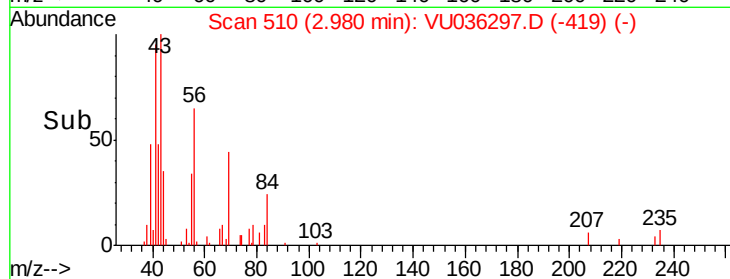
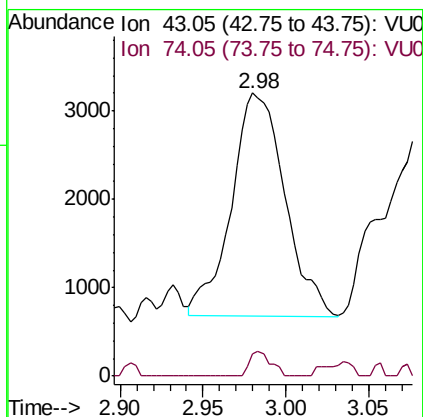
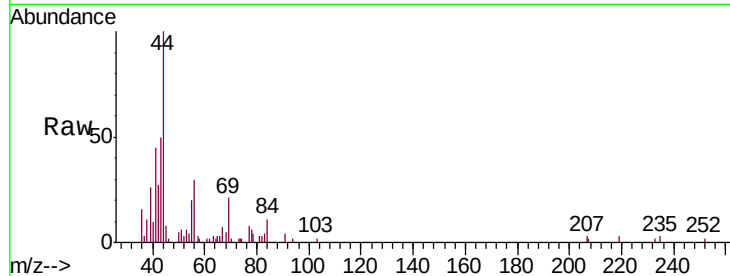




#15
Methyl Acetate
Concen: 0.802 ug/L
RT: 2.98 min Scan# 510
Delta R.T. -0.01 min
Lab File: VU036297.D
Acq: 19 Dec 2019 21:20

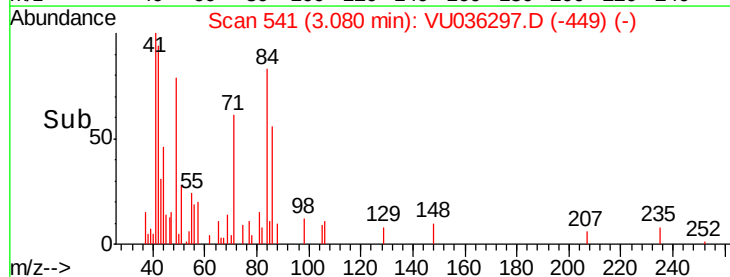
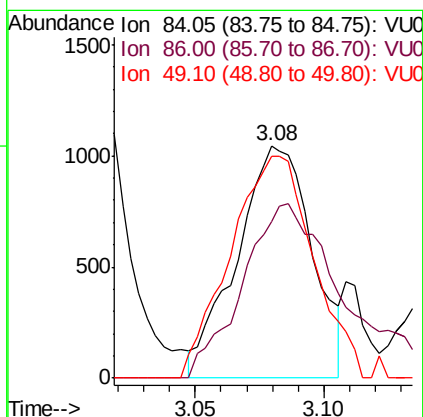
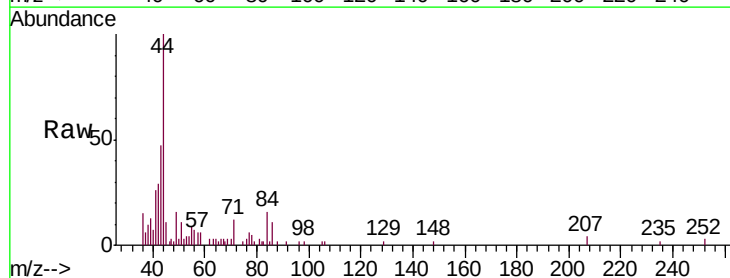
Instrument :
MSVOA_U
ClientSampled :
BFDX0

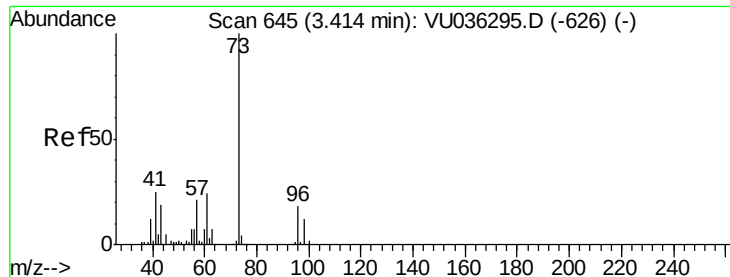
Tgt Ion: 43 Resp: 5706
Ion Ratio Lower Upper
43 100
74 4.3 20.8 31.2#



#16
Methylene chloride
Concen: 0.079 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU036297.D
Acq: 19 Dec 2019 21:20

Tgt Ion: 84 Resp: 2118
Ion Ratio Lower Upper
84 100
86 67.6 43.0 79.8
49 95.5 77.3 143.5





#17

Methyl tert-butyl Ether

Concen: 1.155 ug/L

RT: 3.44 min Scan# 653

Delta R.T. 0.03 min

Lab File: VU036297.D

Acq: 19 Dec 2019 21:20

Instrument :

MSVOA_U

ClientSampleId :

BFDX0

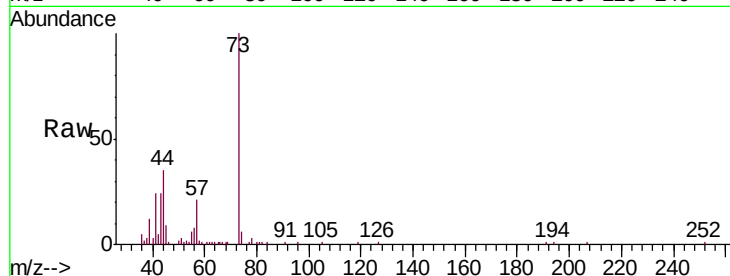
Tgt Ion: 73 Resp: 45008

Ion Ratio Lower Upper

73 100

43 19.8 15.3 22.9

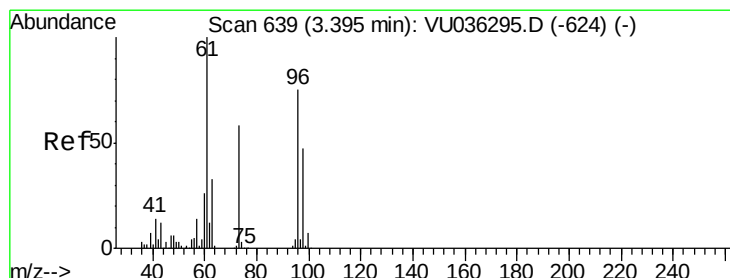
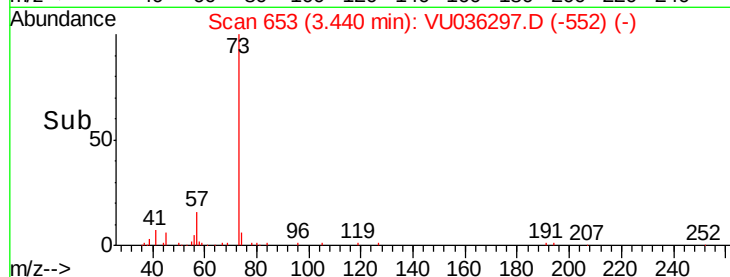
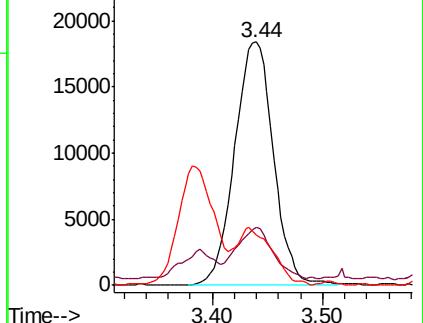
57 21.0 18.2 27.2



Abundance Ion 73.10 (72.80 to 73.80): VU036297.D (-552) (-)

Ion 43.05 (42.75 to 43.75): VU036297.D (-552) (-)

Ion 57.10 (56.80 to 57.80): VU036297.D (-552) (-)



#18

trans-1,2-Dichloroethene

Concen: 1.036 ug/L

RT: 3.39 min Scan# 638

Delta R.T. -0.00 min

Lab File: VU036297.D

Acq: 19 Dec 2019 21:20

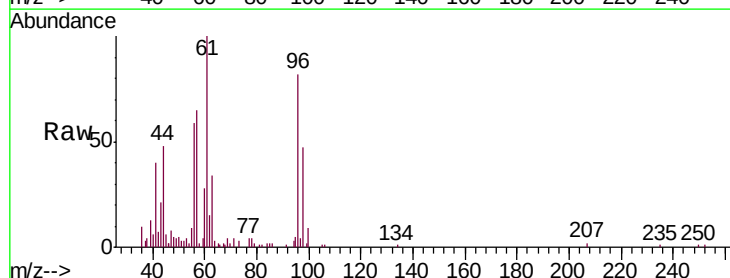
Tgt Ion: 96 Resp: 19722

Ion Ratio Lower Upper

96 100

61 122.2 94.8 176.2

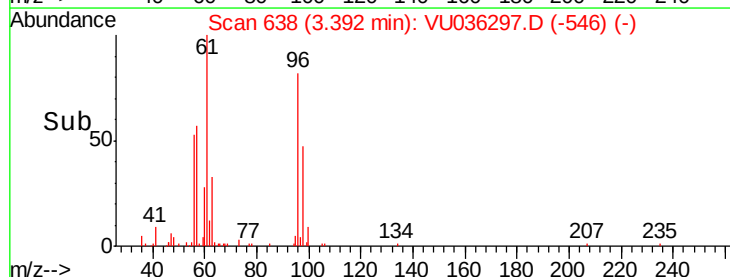
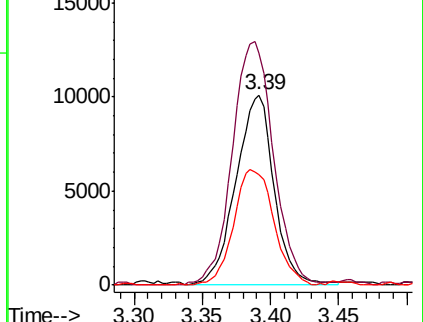
98 57.9 46.8 86.8

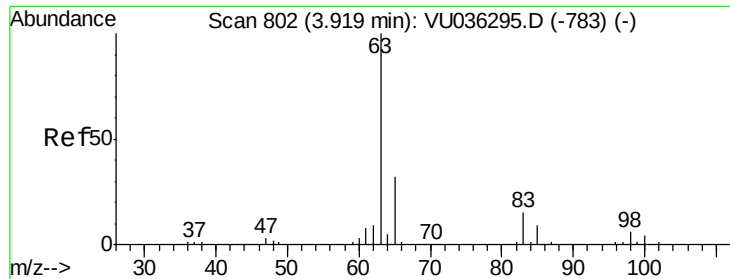


Abundance Ion 96.00 (95.70 to 96.70): VU036297.D (-546) (-)

Ion 61.05 (60.75 to 61.75): VU036297.D (-546) (-)

Ion 97.95 (97.65 to 98.65): VU036297.D (-546) (-)





#19

1,1-Dichloroethane

Concen: 0.433 ug/L

RT: 3.92 min Scan# 803

Delta R.T. 0.00 min

Lab File: VU036297.D

Acq: 19 Dec 2019 21:20

Instrument :

MSVOA_U

ClientSampleId :

BFDX0

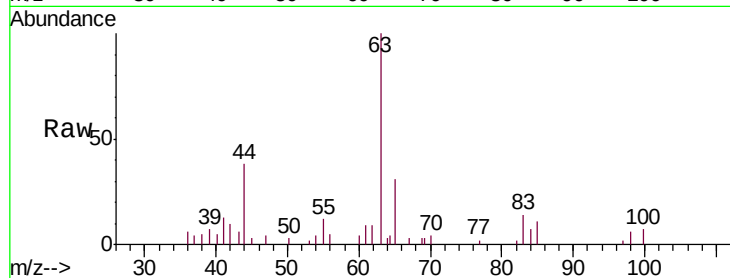
Tgt Ion: 63 Resp: 15231

Ion Ratio Lower Upper

63 100

65 31.0 22.6 42.0

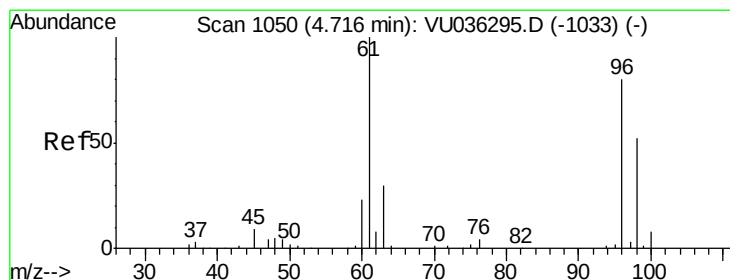
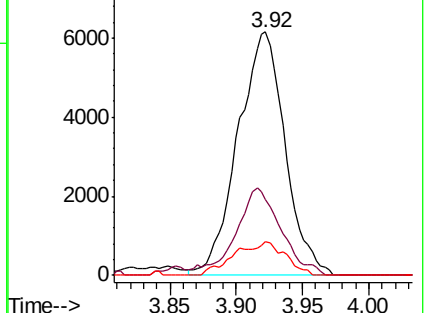
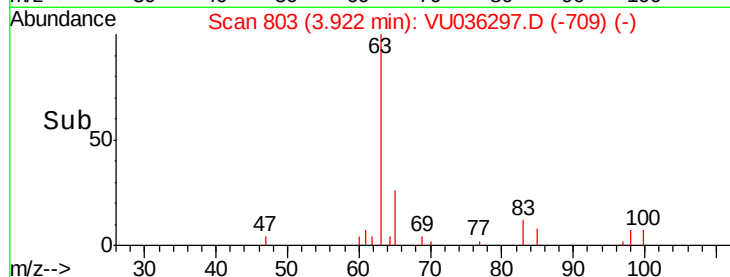
83 13.7 9.7 18.1



Abundance Ion 63.10 (62.80 to 63.80): VU036297.D (-783) (-)

Ion 65.10 (64.80 to 65.80): VU036297.D (-783) (-)

Ion 83.05 (82.75 to 83.75): VU036297.D (-783) (-)



#22

cis-1,2-Dichloroethene

Concen: 21.210 ug/L

RT: 4.73 min Scan# 1054

Delta R.T. 0.01 min

Lab File: VU036297.D

Acq: 19 Dec 2019 21:20

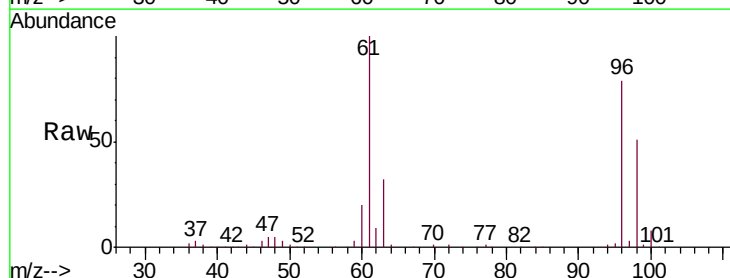
Tgt Ion: 96 Resp: 433145

Ion Ratio Lower Upper

96 100

61 126.8 86.7 161.1

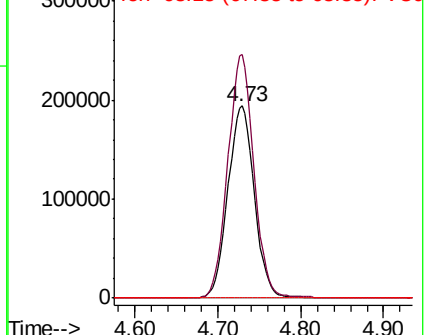
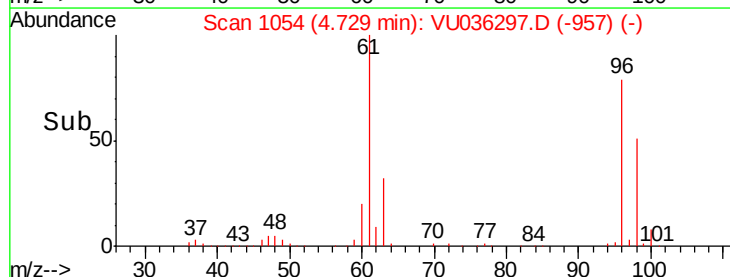
68 0.0 0.0 0.0

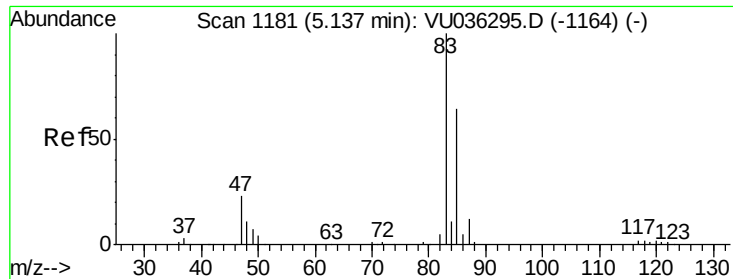


Abundance Ion 96.00 (95.70 to 96.70): VU036297.D (-957) (-)

Ion 61.05 (60.75 to 61.75): VU036297.D (-957) (-)

Ion 68.15 (67.85 to 68.85): VU036297.D (-957) (-)

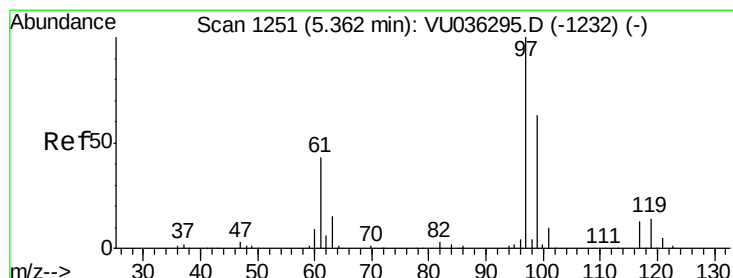
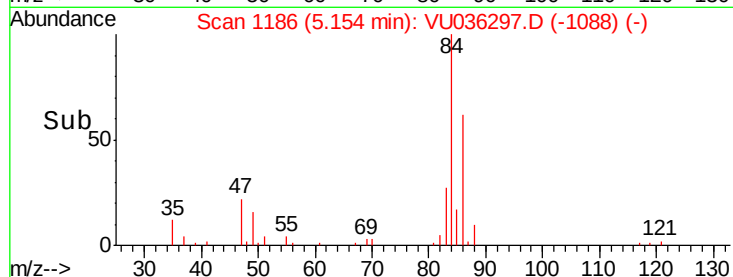
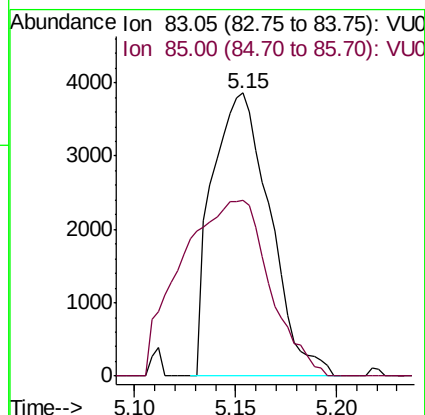
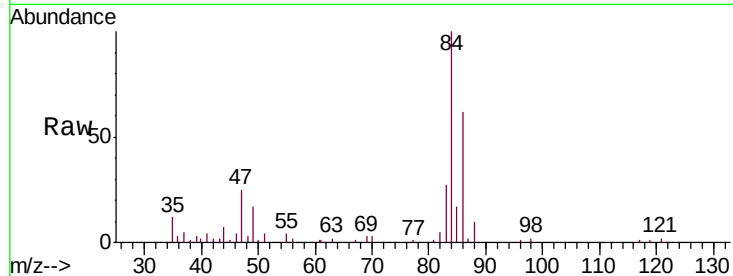




#25
Chloroform
Concen: 0.202 ug/L
RT: 5.15 min Scan# 1186
Delta R.T. 0.02 min
Lab File: VU036297.D
Acq: 19 Dec 2019 21:20

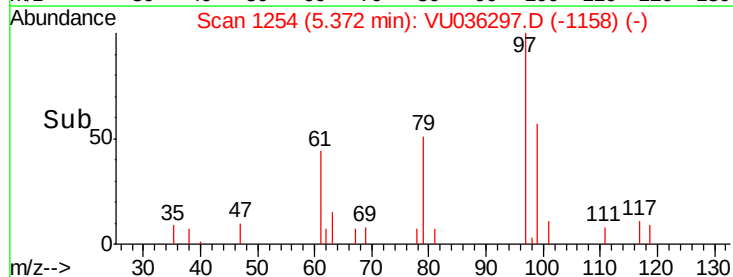
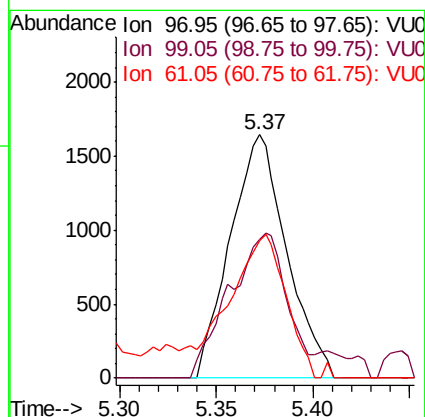
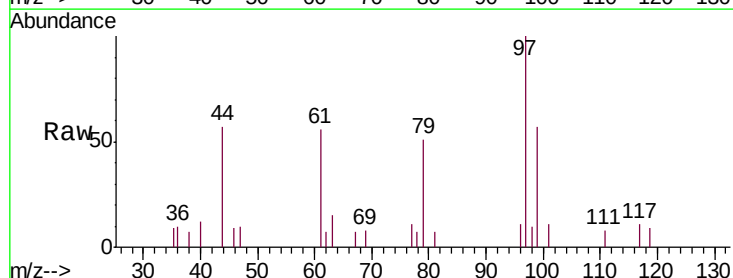
Instrument :
MSVOA_U
ClientSampleId :
BFDX0

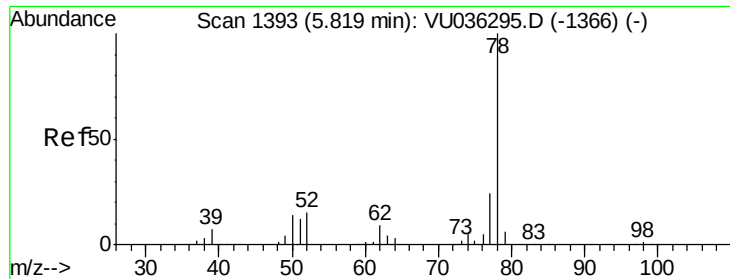
Tgt Ion: 83 Resp: 7686
Ion Ratio Lower Upper
83 100
85 62.3 47.5 88.1



#29
1,1,1-Trichloroethane
Concen: 0.105 ug/L
RT: 5.37 min Scan# 1254
Delta R.T. 0.01 min
Lab File: VU036297.D
Acq: 19 Dec 2019 21:20

Tgt Ion: 97 Resp: 3329
Ion Ratio Lower Upper
97 100
99 61.9 51.4 77.2
61 60.8 35.0 52.6#





#33

Benzene

Concen: 0.106 ug/L

RT: 5.82 min Scan# 1394

Delta R.T. 0.00 min

Lab File: VU036297.D

Acq: 19 Dec 2019 21:20

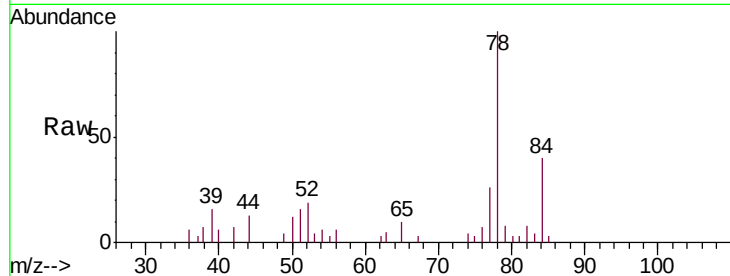
Instrument :

MSVOA_U

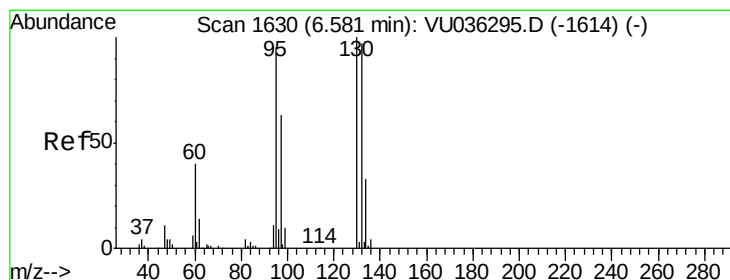
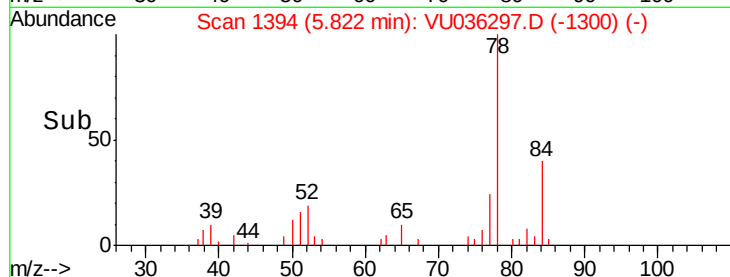
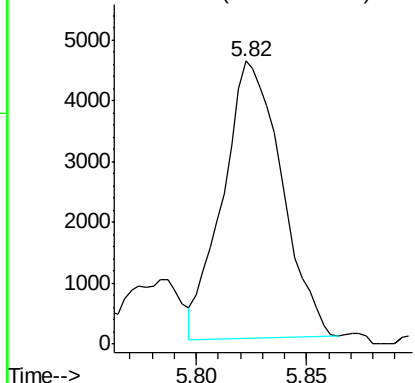
ClientSampleId :

BFDX0

Tgt Ion: 78 Resp: 8438



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 223.550 ug/L

RT: 6.59 min Scan# 1632

Delta R.T. 0.01 min

Lab File: VU036297.D

Acq: 19 Dec 2019 21:20

Tgt Ion: 95 Resp: 4572124

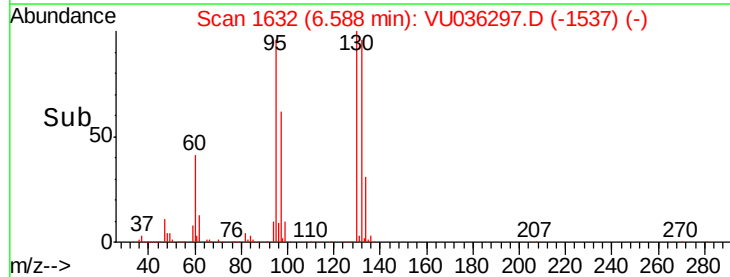
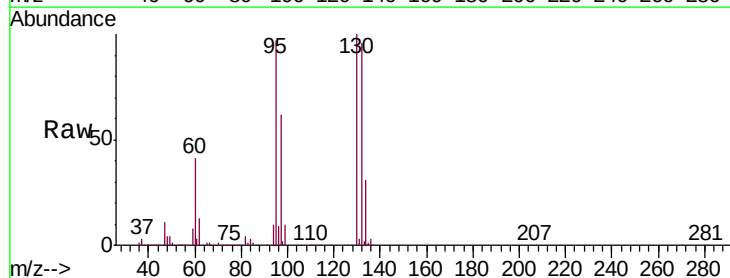
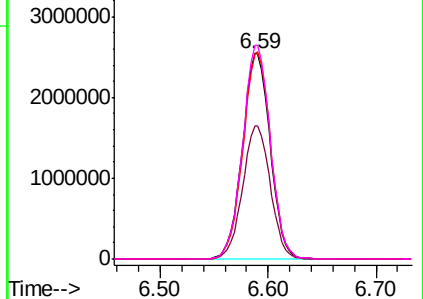
Ion	Ratio	Lower	Upper
95	100		
97	64.5	43.6	81.0
132	99.5	69.6	129.2
130	103.6	70.3	130.7

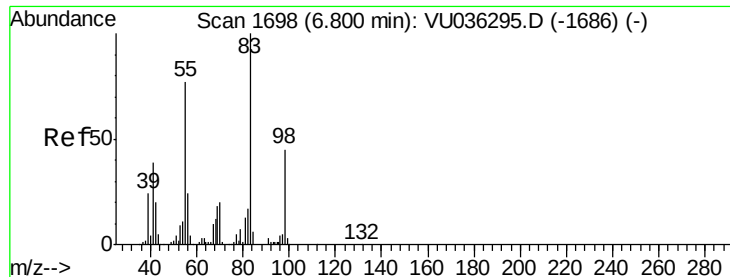
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

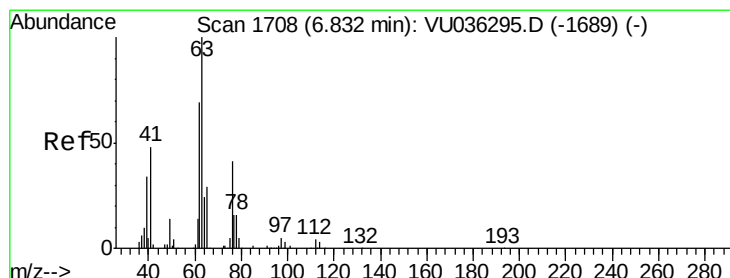
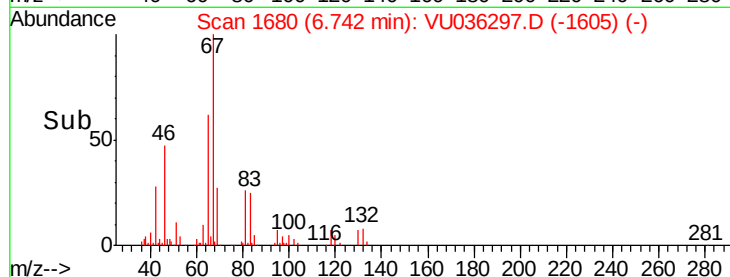
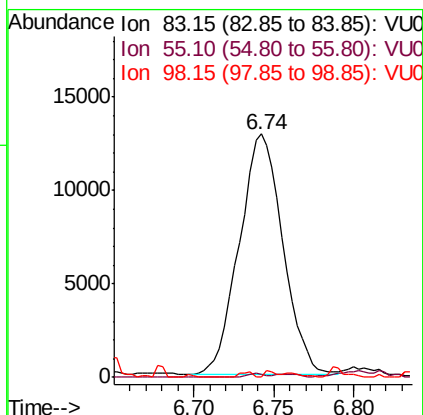
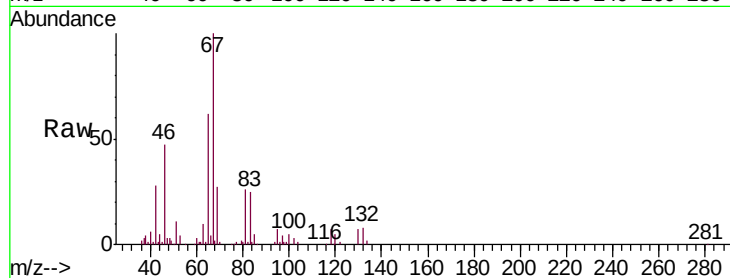




#35
Methylcyclohexane
Concen: 0.821 ug/L
RT: 6.74 min Scan# 1680
Delta R.T. -0.06 min
Lab File: VU036297.D
Acq: 19 Dec 2019 21:20

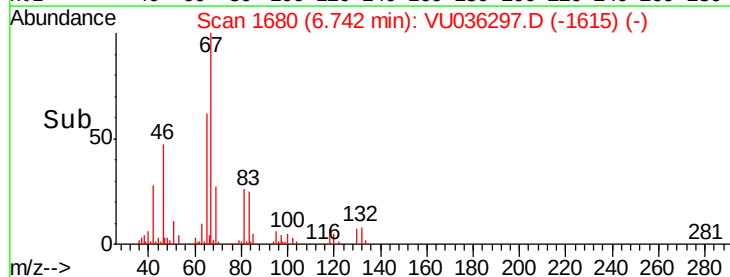
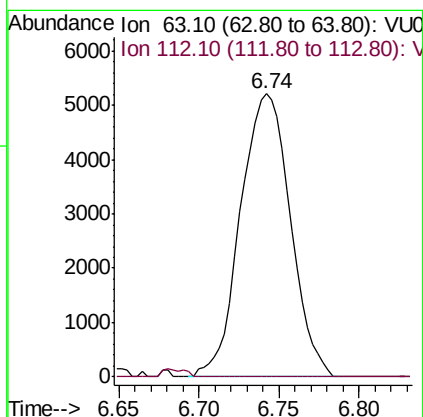
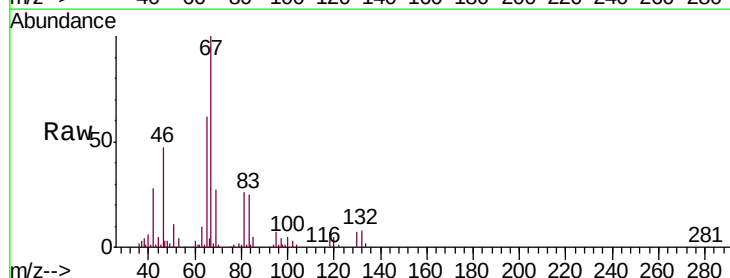
Instrument :
MSVOA_U
ClientSampleId :
BFDX0

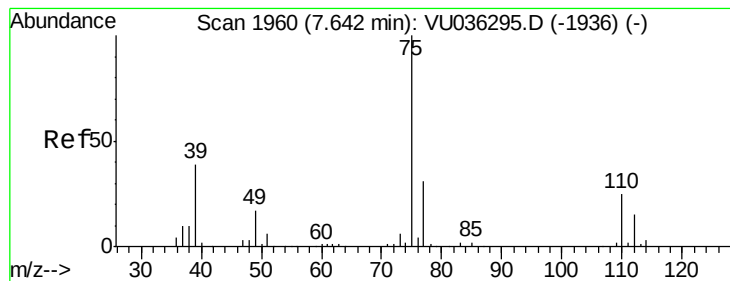
Tgt Ion: 83 Resp: 23861
Ion Ratio Lower Upper
83 100
55 0.7 62.6 94.0#
98 0.0 36.2 54.2#



#37
1,2-Dichloropropane
Concen: 0.548 ug/L
RT: 6.74 min Scan# 1680
Delta R.T. -0.09 min
Lab File: VU036297.D
Acq: 19 Dec 2019 21:20

Tgt Ion: 63 Resp: 11100
Ion Ratio Lower Upper
63 100
112 1.3 3.8 5.8#



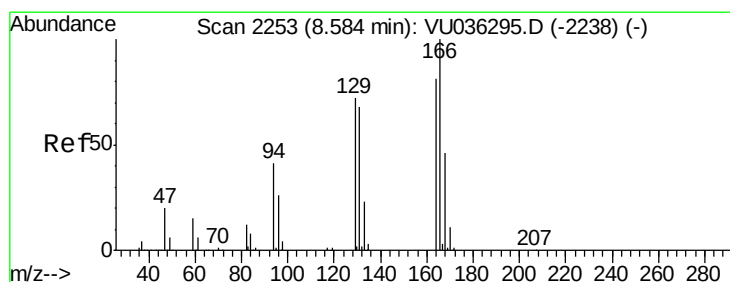
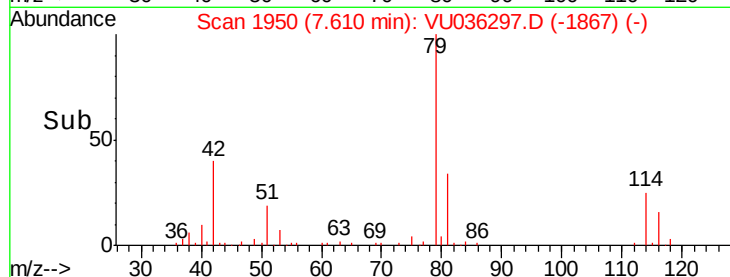
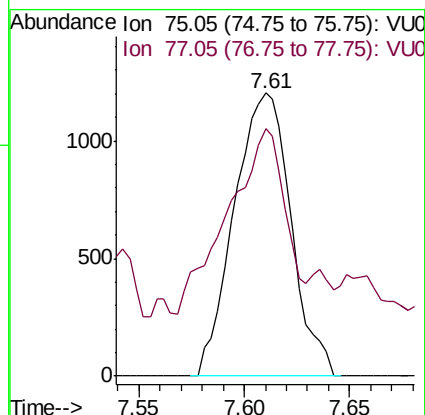
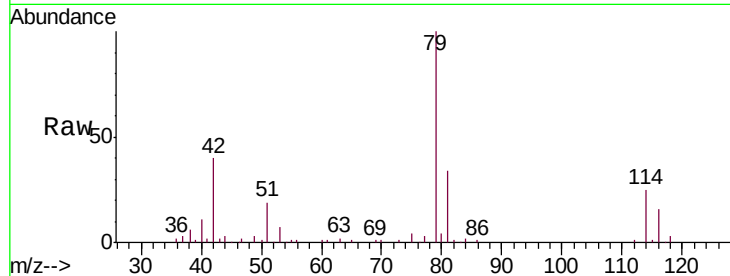


#39

cis-1,3-Dichloropropene
Concen: 0.082 ug/L
RT: 7.61 min Scan# 1950
Delta R.T. -0.03 min
Lab File: VU036297.D
Acq: 19 Dec 2019 21:20

Instrument :
MSVOA_U
ClientSampleId :
BFDX0

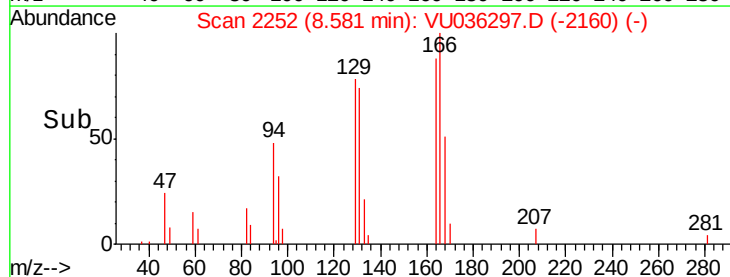
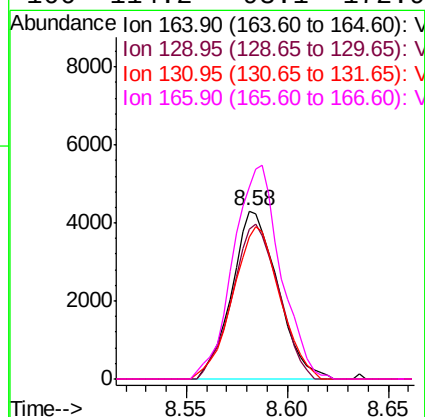
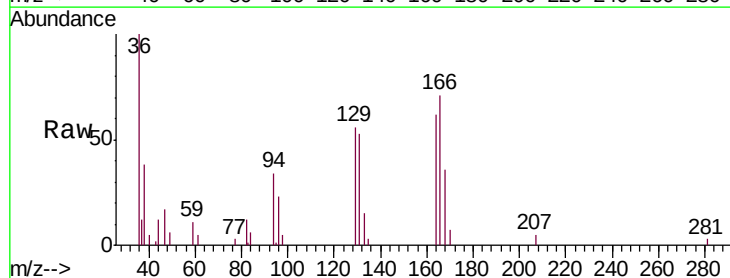
Tgt Ion: 75 Resp: 2249
Ion Ratio Lower Upper
75 100
77 87.7 22.7 42.1#

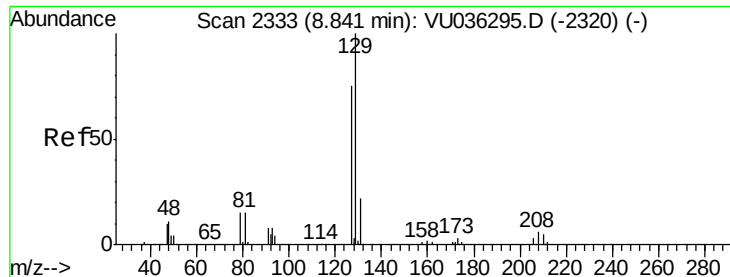


#47

Tetrachloroethene
Concen: 0.372 ug/L
RT: 8.58 min Scan# 2252
Delta R.T. -0.00 min
Lab File: VU036297.D
Acq: 19 Dec 2019 21:20

Tgt Ion: 164 Resp: 6872
Ion Ratio Lower Upper
164 100
129 89.0 64.2 119.2
131 84.2 66.6 123.8
166 114.2 93.1 172.9





#49

Dibromochloromethane

Concen: 0.340 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.26 min

Lab File: VU036297.D

Acq: 19 Dec 2019 21:20

Instrument :

MSVOA_U

ClientSampleId :

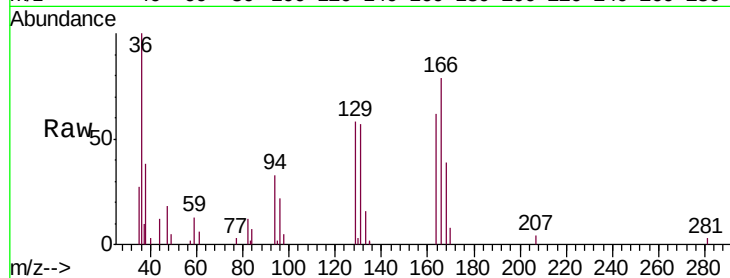
BFDX0

Tgt Ion:129 Resp: 6378

Ion Ratio Lower Upper

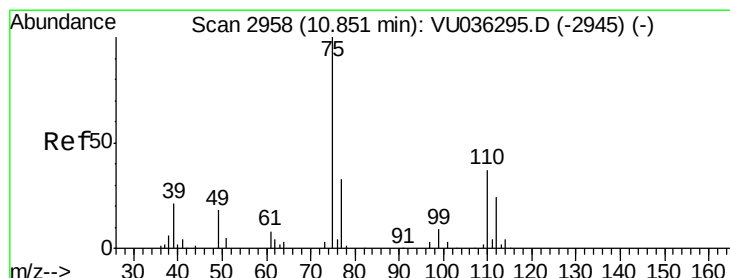
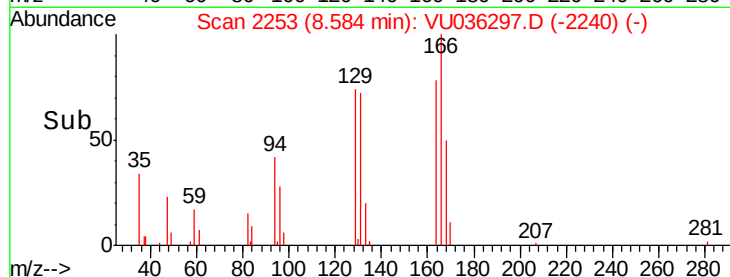
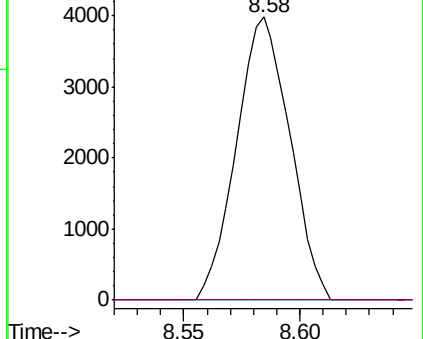
129 100

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



#59

1,2,3-Trichloropropane

Concen: 0.923 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. 0.98 min

Lab File: VU036297.D

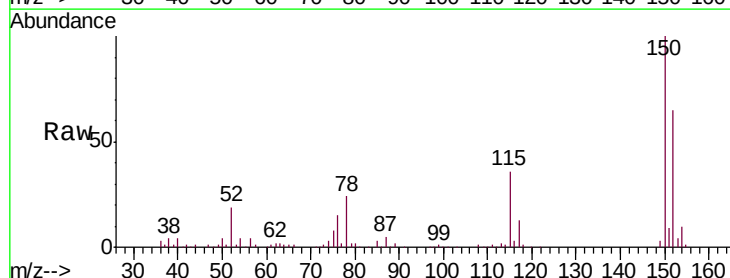
Acq: 19 Dec 2019 21:20

Tgt Ion: 75 Resp: 12420

Ion Ratio Lower Upper

75 100

77 31.9 27.2 40.8



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

