

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120319\
 Data File : VU035955.D
 Acq On : 03 Dec 2019 18:21
 Operator : JC/SP
 Sample : K6105-04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFE24

Quant Time: Dec 04 03:39:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Dec 04 03:35:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	328190	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	339961	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	96101	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	162548	4.35	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.00%
7) Chloroethane-d5	1.93	69	133398	4.45	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.00%
11) 1,1-Dichloroethene-d2	2.60	63	306833	5.71	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	114.20%
20) 2-Butanone-d5	4.69	46	309772	46.76	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.52%
24) Chloroform-d	5.11	84	246021	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.80%
26) 1,2-Dichloroethane-d4	5.75	65	124475	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.60%
32) Benzene-d6	5.77	84	465530	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.40%
36) 1,2-Dichloropropane-d6	6.73	67	151349	4.64	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.80%
41) Toluene-d8	7.93	98	379495	4.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.80%
43) trans-1,3-Dichloropropene-	8.21	79	56413	4.29	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.80%
46) 2-Hexanone-d5	8.68	63	238526	46.06	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.12%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	120493	4.40	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.00%
64) 1,2-Dichlorobenzene-d4	12.22	152	100842	5.08	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.60%

Target Compounds

					Ovalue
9) Trichlorofluoromethane	2.16	101	5538	0.120 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	24403	0.967 ug/L	95
12) 1,1-Dichloroethene	2.61	96	234724	9.980 ug/L	86
13) Acetone	2.67	43	8912	1.488 ug/L	97
17) Methyl tert-butyl Ether	3.42	73	63866	1.159 ug/L	99
18) trans-1,2-Dichloroethene	3.39	96	6482	0.260 ug/L	92
19) 1,1-Dichloroethane	3.92	63	44137	0.907 ug/L	97
22) cis-1,2-Dichloroethene	4.72	96	966475	36.731 ug/L	96
25) Chloroform	5.14	83	305561	6.220 ug/L	100
29) 1,1,1-Trichloroethane	5.36	97	54256	1.320 ug/L	96
31) Carbon tetrachloride	5.57	117	158881	4.359 ug/L	100
34) Trichloroethene	6.58	95	6339778	234.501 ug/L	98
35) Methylcyclohexane	6.74	83	34764	0.858 ug/L #	16
39) cis-1,3-Dichloropropene	7.60	75	3925	0.102 ug/L #	39
47) Tetrachloroethene	8.58	164	1089571	49.586 ug/L	97
48) 2-Hexanone	8.68	43	35052	2.789 ug/L #	66
49) Dibromochloromethane	8.58	129	985661	41.015 ug/L #	12

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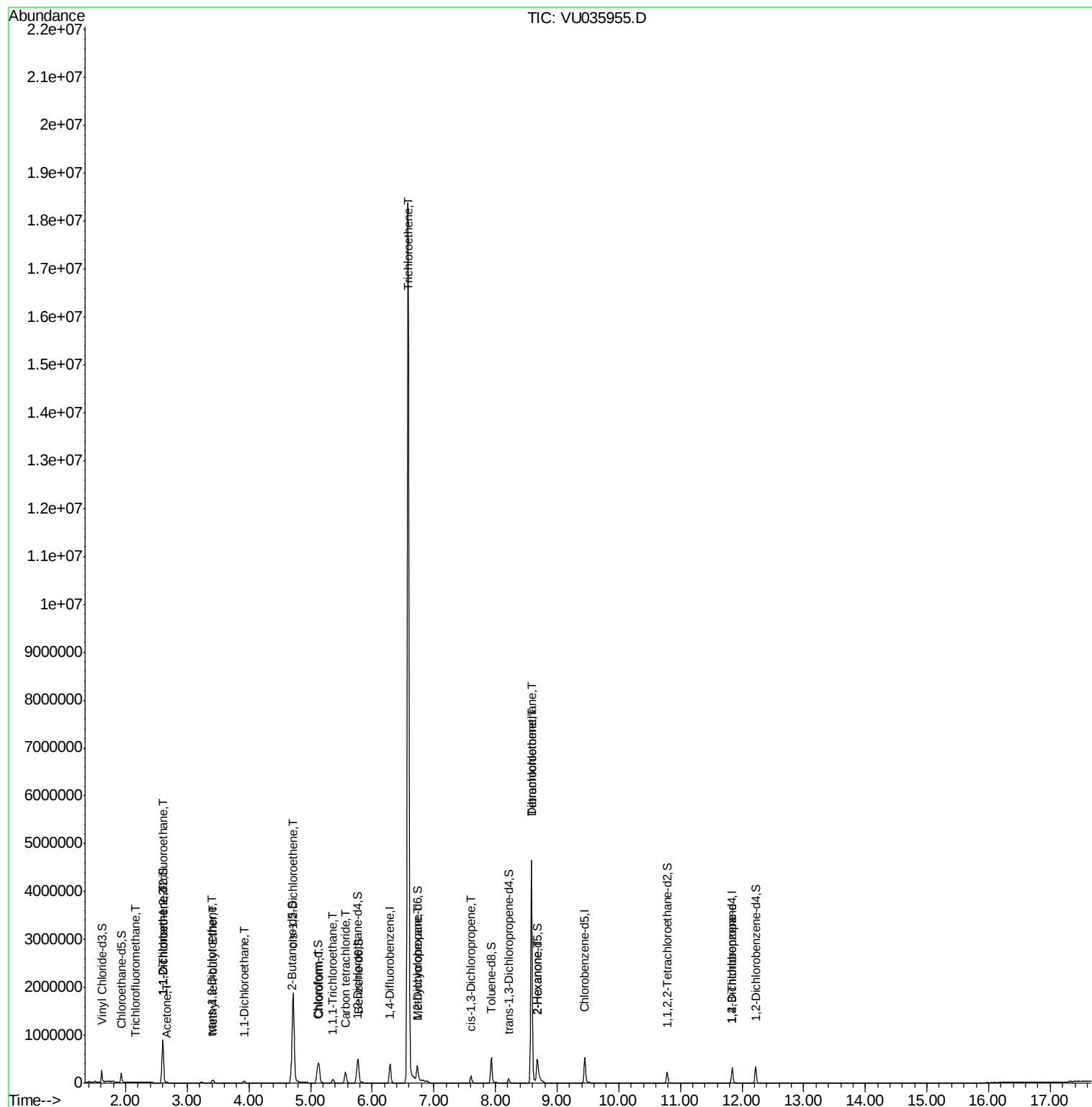
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.84	75	12003	0.638	ug/L	97

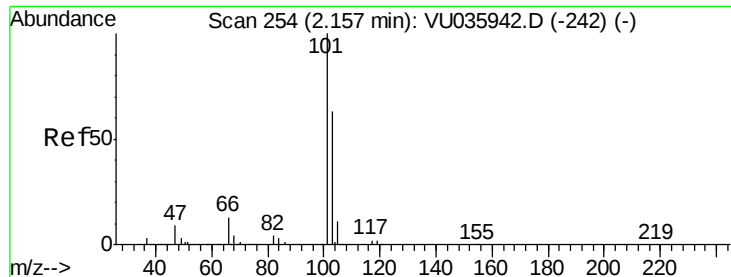
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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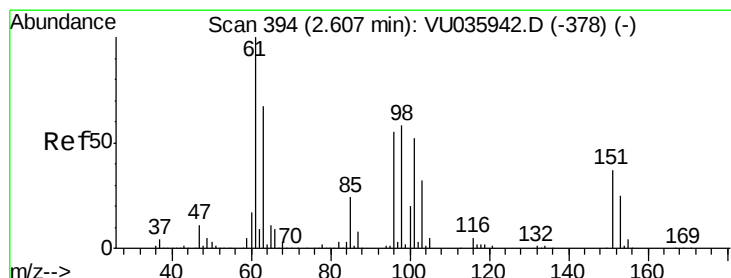
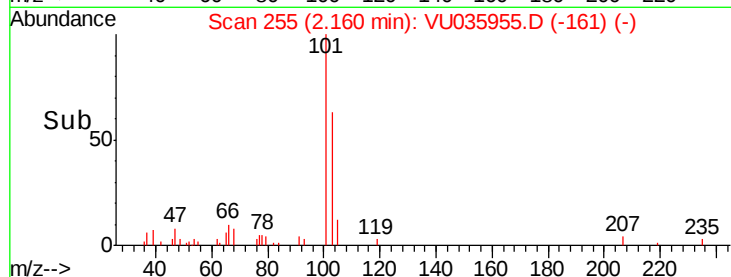
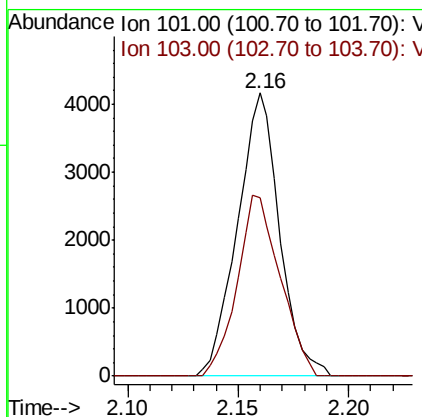
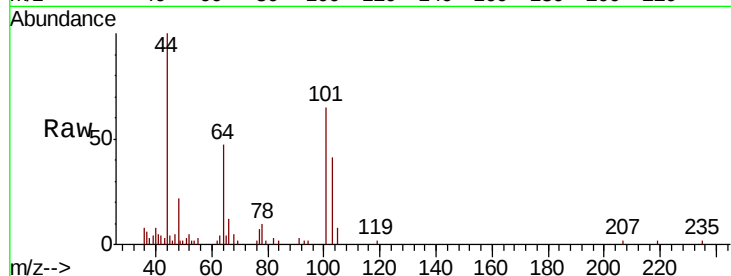


#9

Trichlorofluoromethane
 Concen: 0.120 ug/L
 RT: 2.16 min Scan# 255
 Delta R.T. 0.00 min
 Lab File: VU035955.D
 Acq: 03 Dec 2019 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 BFE24

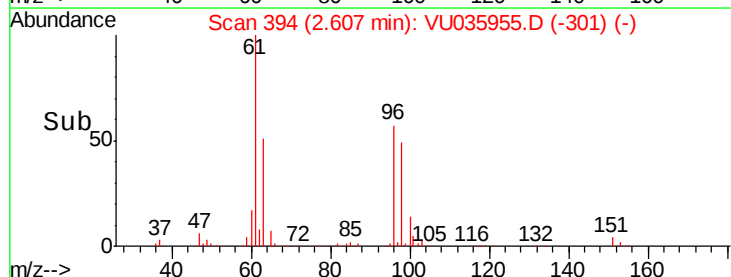
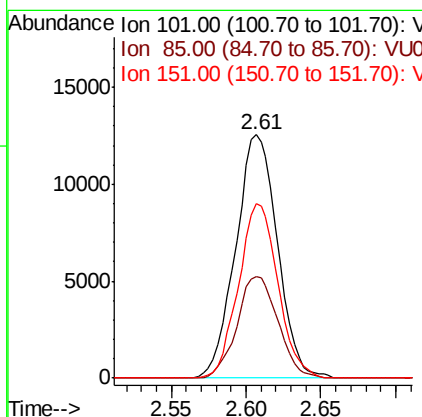
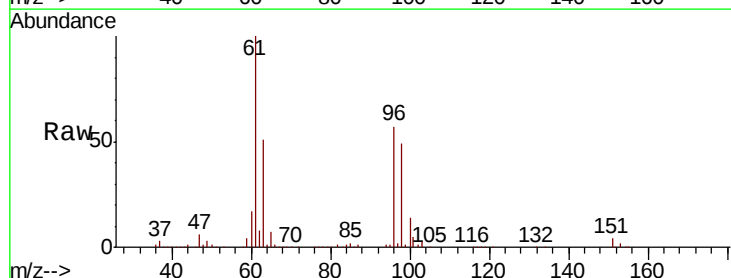
Tot Ion:101 Resp: 5538
 Ion Ratio Lower Upper
 101 100
 103 65.1 51.8 77.8

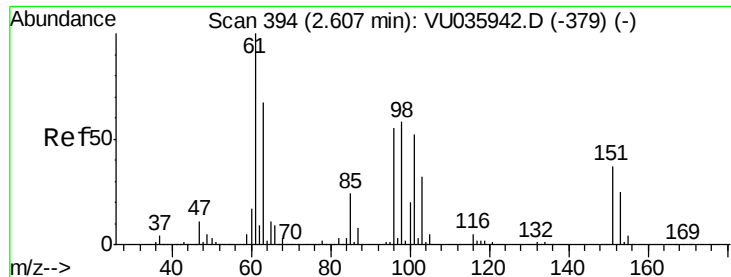


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.967 ug/L
 RT: 2.61 min Scan# 394
 Delta R.T. -0.00 min
 Lab File: VU035955.D
 Acq: 03 Dec 2019 18:21

Tgt Ion:101 Resp: 24403
 Ion Ratio Lower Upper
 101 100
 85 40.9 35.5 53.3
 151 67.6 57.5 86.3

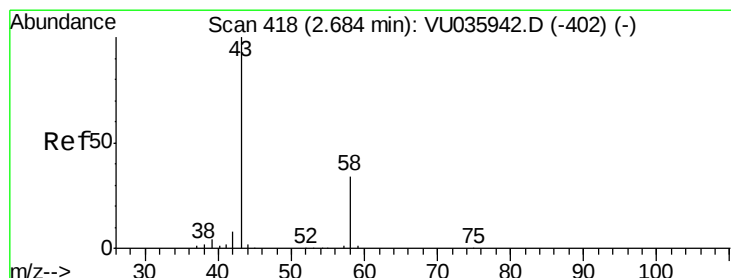
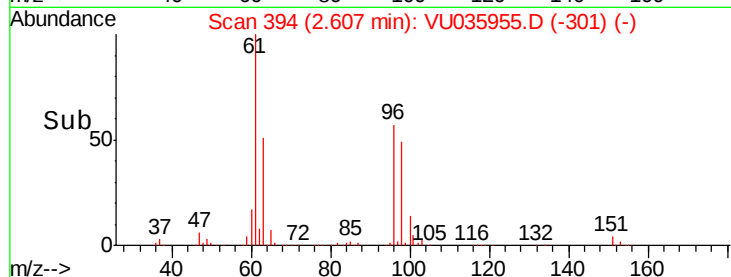
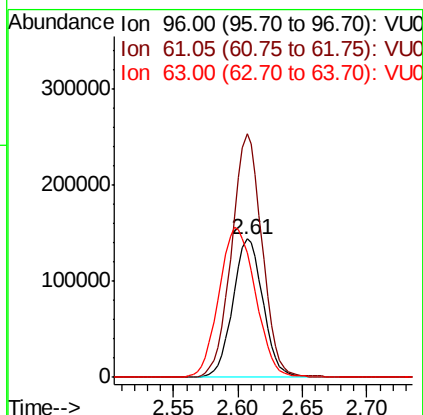
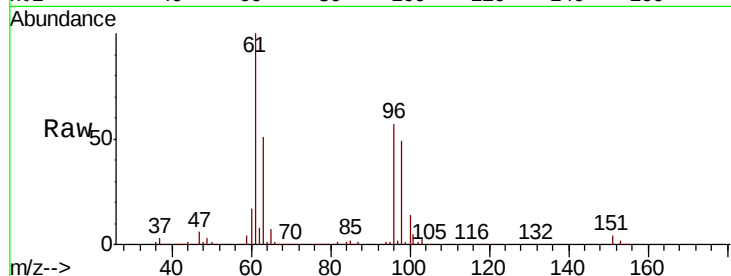




#12
 1,1-Dichloroethene
 Concen: 9.980 ug/L
 RT: 2.61 min Scan# 394
 Delta R.T. -0.00 min
 Lab File: VU035955.D
 Acq: 03 Dec 2019 18:21

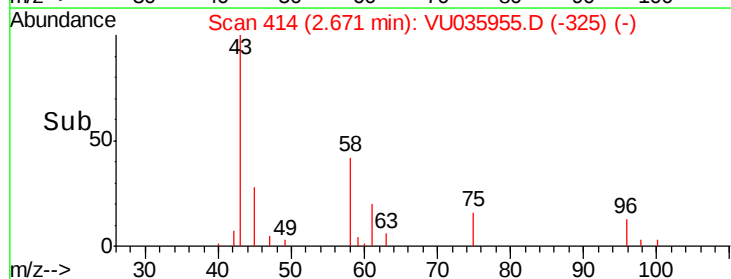
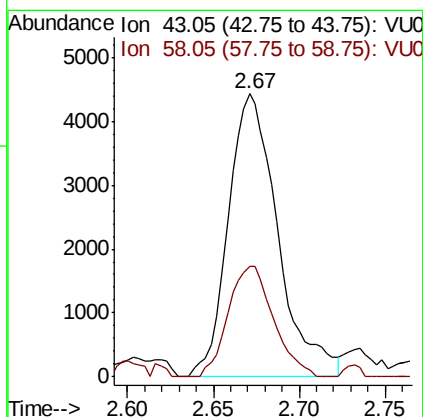
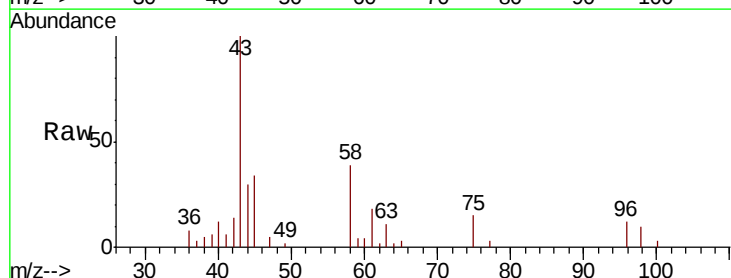
Instrument :
 MSVOA_U
 ClientSampleId :
 BFE24

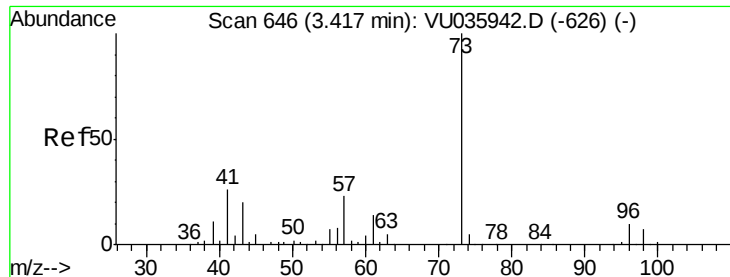
Tot Ion	Resp	Lower	Upper
96	100		
61	175.9	127.1	236.1
63	89.9	86.0	159.8



#13
 Acetone
 Concen: 1.488 ug/L
 RT: 2.67 min Scan# 414
 Delta R.T. -0.01 min
 Lab File: VU035955.D
 Acq: 03 Dec 2019 18:21

Tgt Ion	Resp	Lower	Upper
43	100		
58	35.8	0.0	68.6

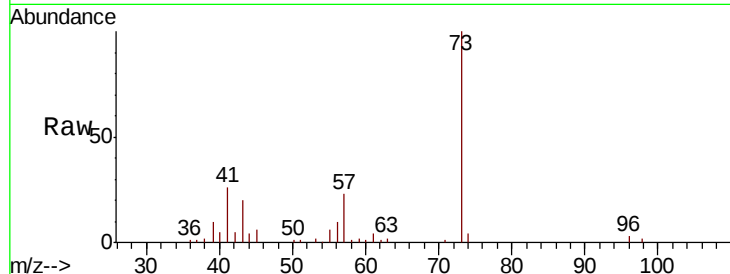




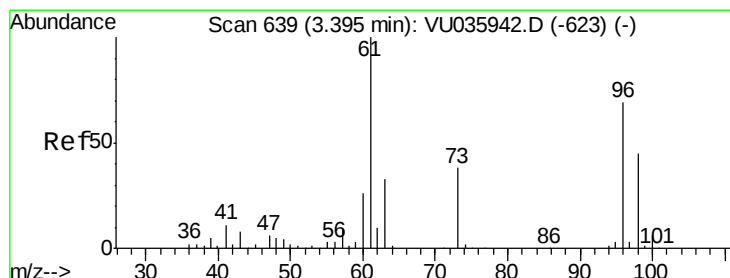
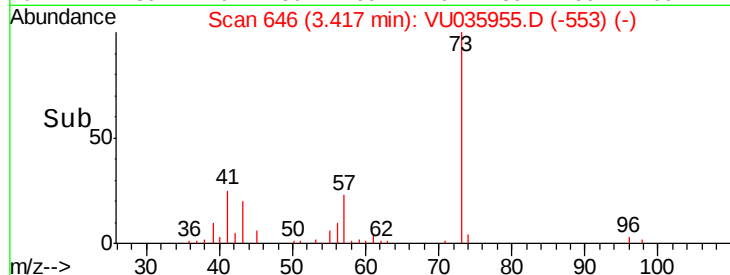
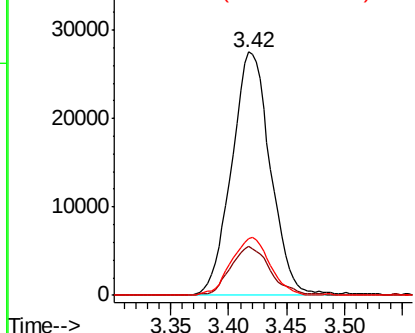
#17
Methvl tert-butvl Ether
Concen: 1.159 ug/L
RT: 3.42 min Scan# 646
Delta R.T. -0.00 min
Lab File: VU035955.D
Acq: 03 Dec 2019 18:21

Instrument :
MSVOA_U
ClientSampleId :
BFE24

Tot Ion: 73 Resp: 63866
Ion Ratio Lower Upper
73 100
43 20.7 15.9 23.9
57 23.7 18.8 28.2

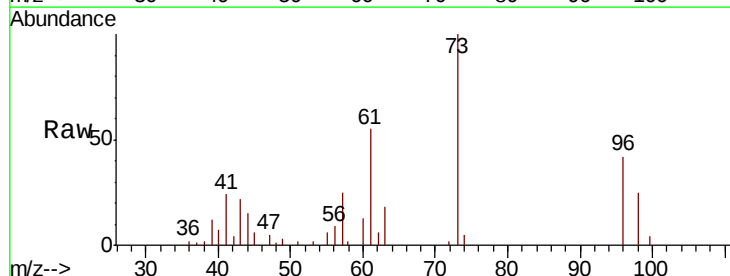


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

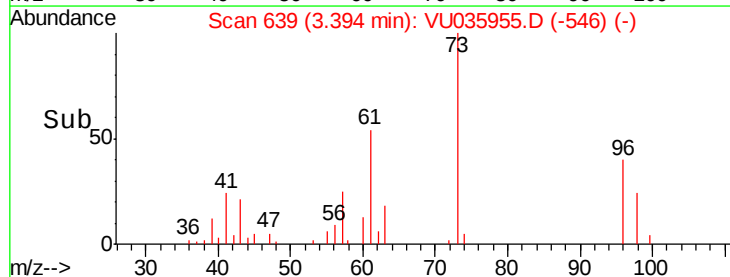
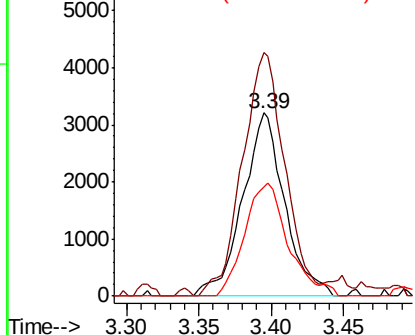


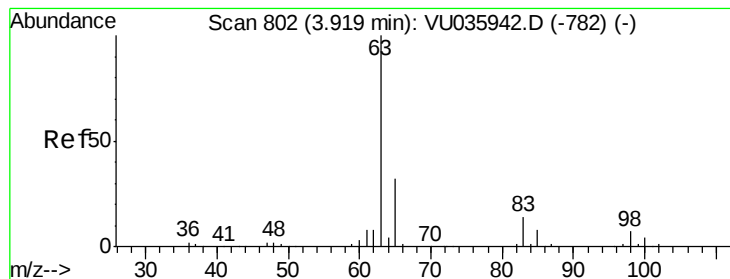
#18
trans-1,2-Dichloroethene
Concen: 0.260 ug/L
RT: 3.39 min Scan# 639
Delta R.T. -0.00 min
Lab File: VU035955.D
Acq: 03 Dec 2019 18:21

Tgt Ion: 96 Resp: 6482
Ion Ratio Lower Upper
96 100
61 133.0 101.2 187.8
98 60.0 45.0 83.6



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: 0.907 ug/L

RT: 3.92 min Scan# 803

Delta R.T. 0.00 min

Lab File: VU035955.D

Acq: 03 Dec 2019 18:21

Instrument :

MSVOA_U

ClientSampleId :

BFE24

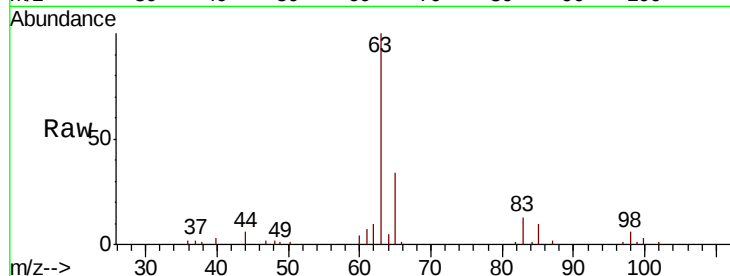
Tot Ion: 63 Resp: 44137

Ion Ratio Lower Upper

63 100

65 33.9 22.4 41.6

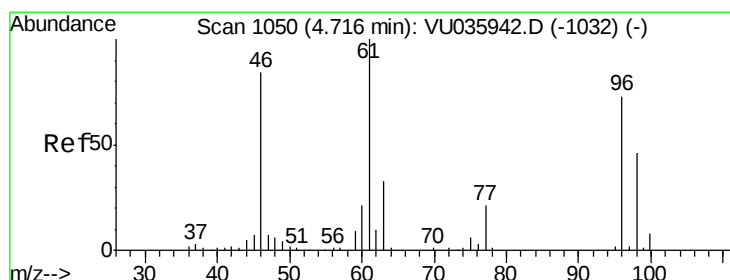
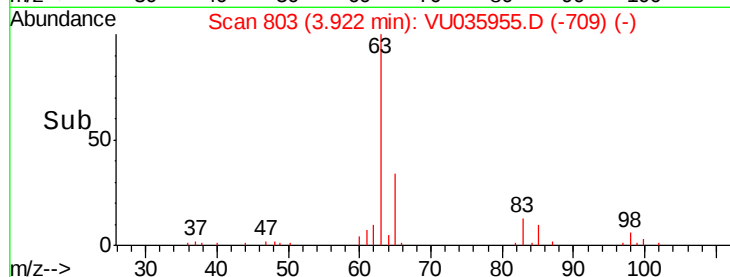
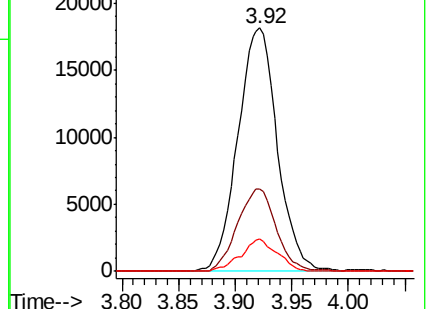
83 13.2 9.8 18.2



Abundance Ion 63.10 (62.80 to 63.80): VU035942.D (-782) (-)

Ion 65.10 (64.80 to 65.80): VU035942.D (-782) (-)

Ion 83.05 (82.75 to 83.75): VU035942.D (-782) (-)



#22

cis-1,2-Dichloroethene

Concen: 36.731 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU035955.D

Acq: 03 Dec 2019 18:21

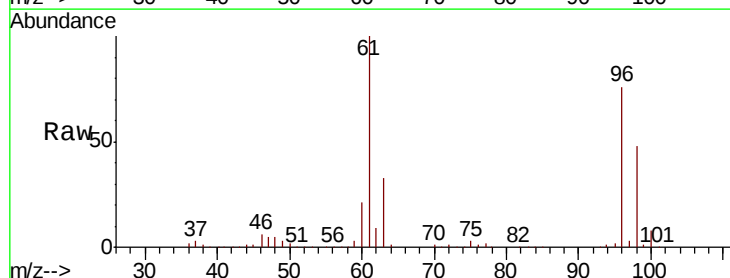
Tgt Ion: 96 Resp: 966475

Ion Ratio Lower Upper

96 100

61 132.3 95.7 177.7

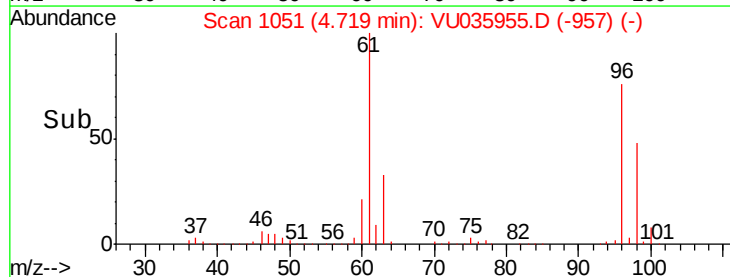
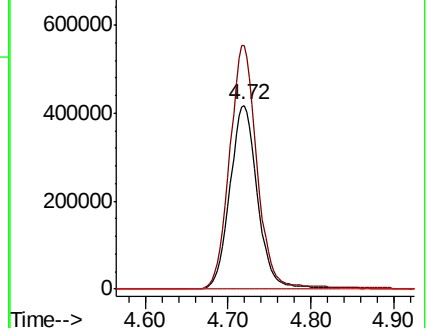
68 0.0 0.0 0.0

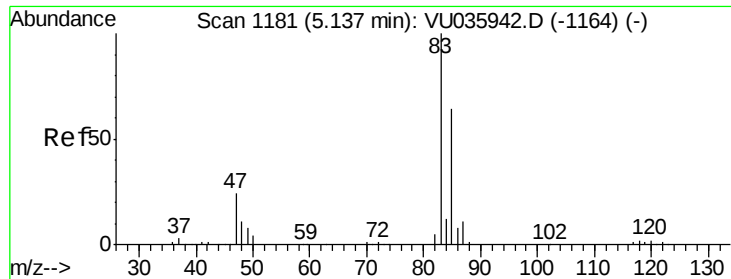


Abundance Ion 96.00 (95.70 to 96.70): VU035942.D (-1032) (-)

Ion 61.05 (60.75 to 61.75): VU035942.D (-1032) (-)

Ion 68.15 (67.85 to 68.85): VU035942.D (-1032) (-)

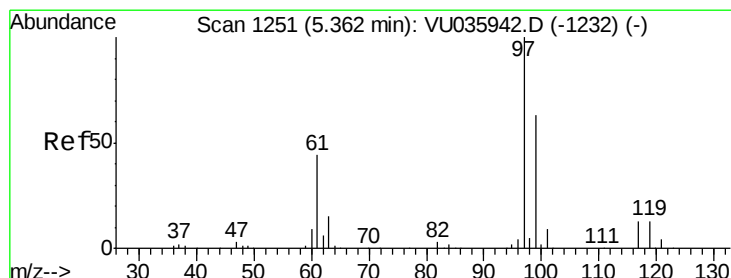
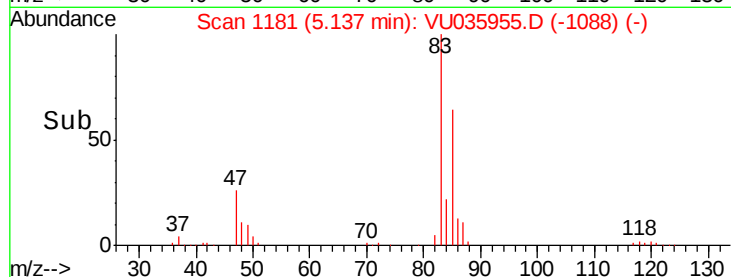
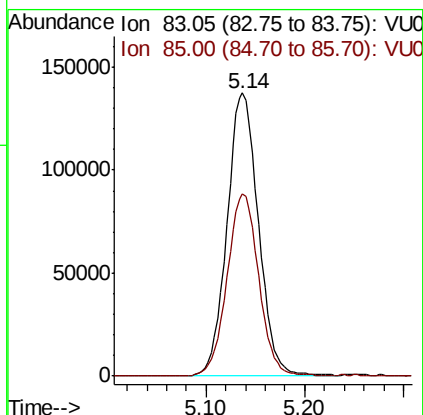
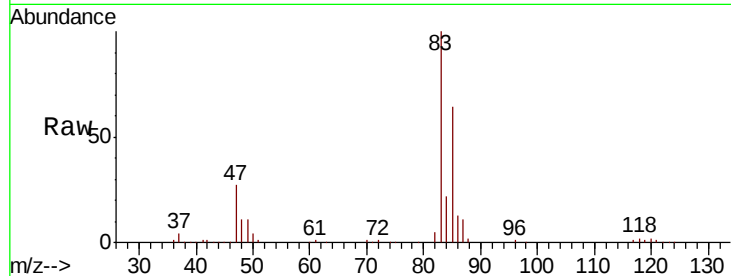




#25
Chloroform
Concen: 6.220 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU035955.D
Acq: 03 Dec 2019 18:21

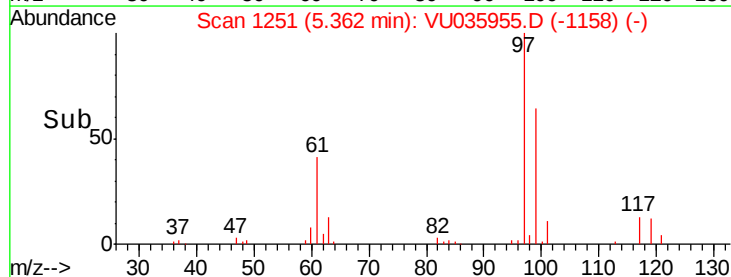
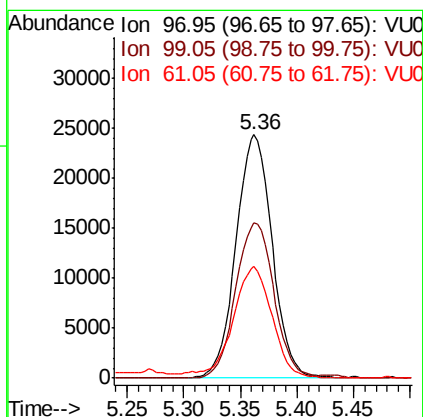
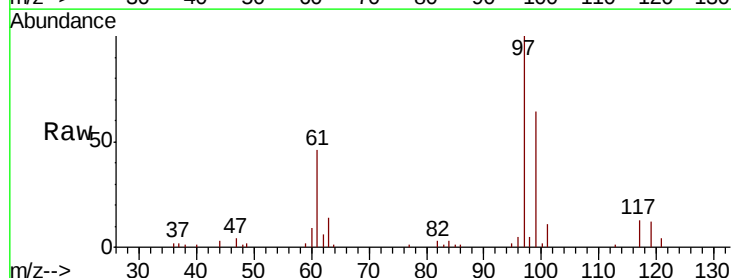
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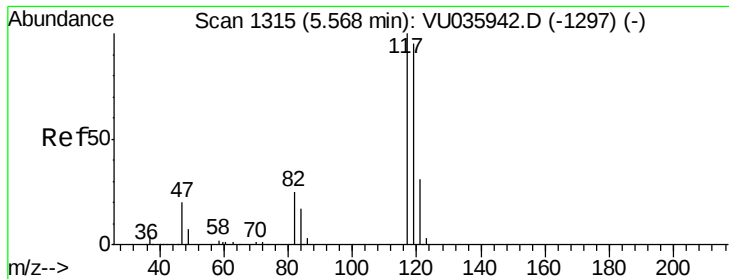
Tot Ion: 83 Resp: 305561
Ion Ratio Lower Upper
83 100
85 64.4 45.4 84.2



#29
1,1,1-Trichloroethane
Concen: 1.320 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VU035955.D
Acq: 03 Dec 2019 18:21

Tgt Ion: 97 Resp: 54256
Ion Ratio Lower Upper
97 100
99 67.7 51.8 77.8
61 50.4 37.6 56.4





#31

Carbon tetrachloride

Concen: 4.359 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VU035955.D

Acq: 03 Dec 2019 18:21

Instrument :

MSVOA_U

ClientSampleId :

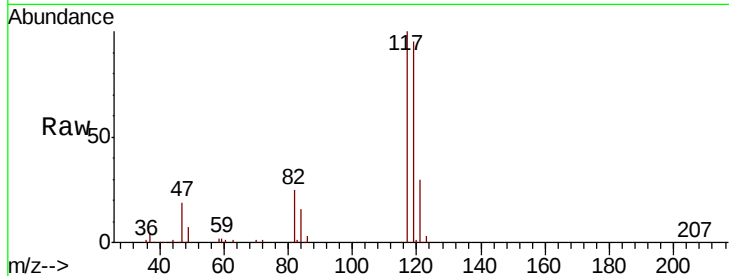
BFE24

Tot Ion:117 Resp: 158881

Ion Ratio Lower Upper

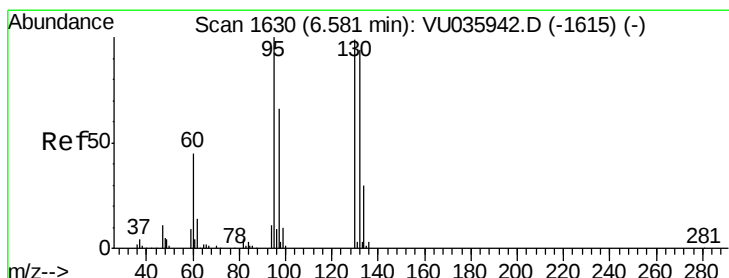
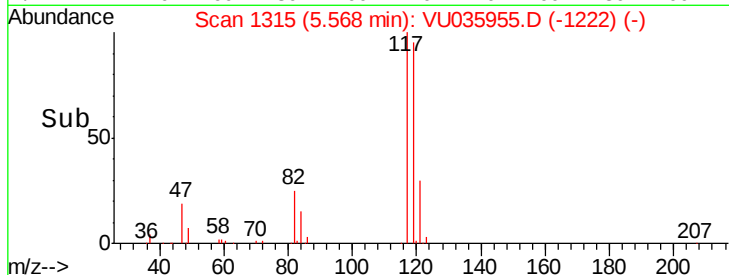
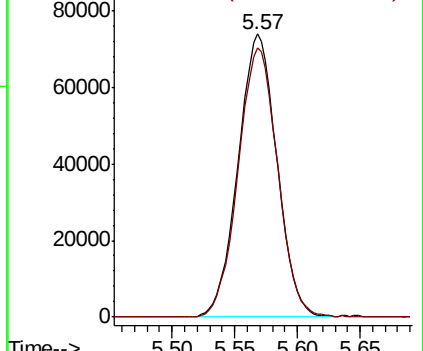
117 100

119 96.4 76.9 115.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#34

Trichloroethene

Concen: 234.501 ug/L

RT: 6.58 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU035955.D

Acq: 03 Dec 2019 18:21

Tgt Ion: 95 Resp: 6339778

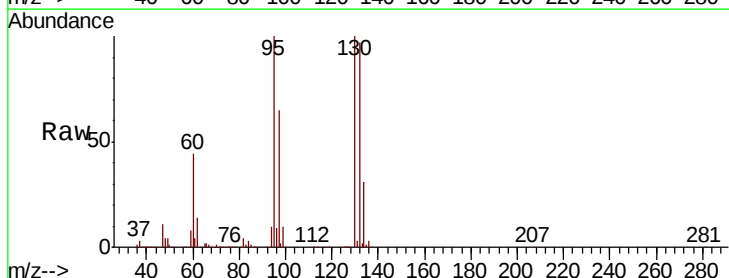
Ion Ratio Lower Upper

95 100

97 64.5 46.3 85.9

132 97.3 65.7 122.1

130 99.7 69.2 128.6

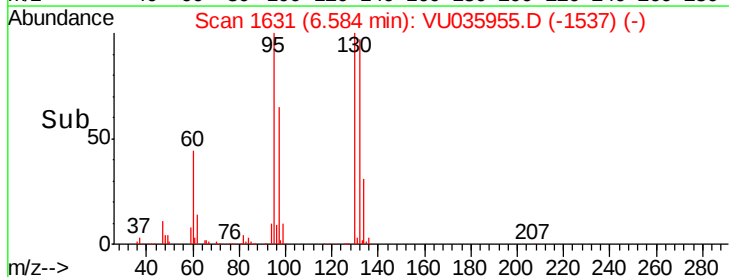
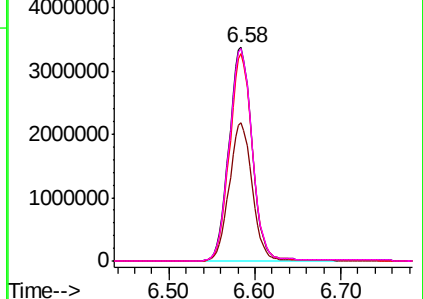


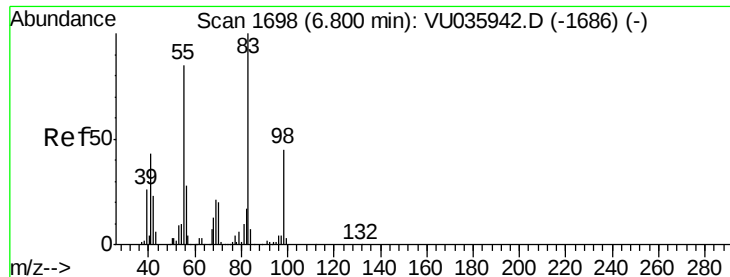
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

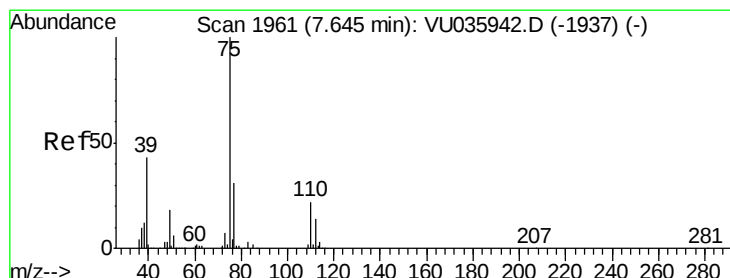
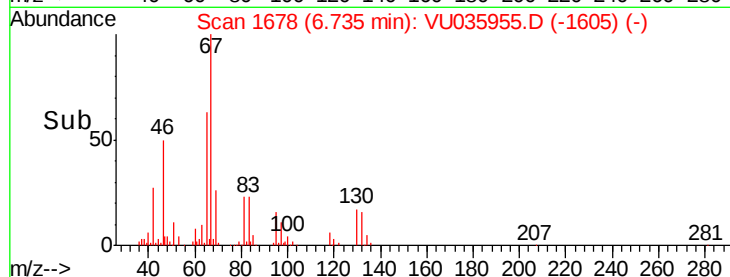
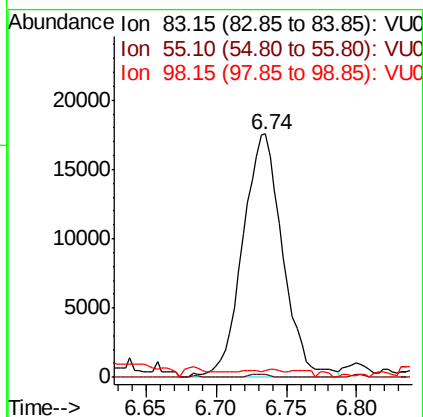
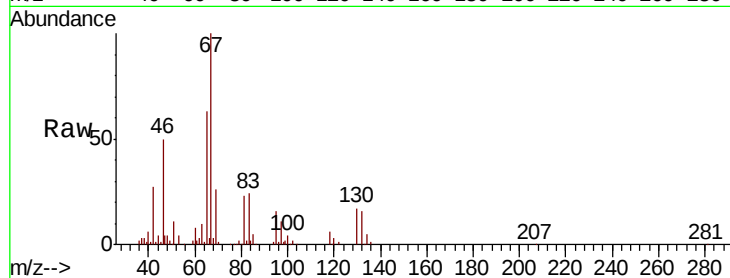




#35
Methvlcvclohexane
Concen: 0.858 ug/L
RT: 6.74 min Scan# 1678
Delta R.T. -0.06 min
Lab File: VU035955.D
Acq: 03 Dec 2019 18:21

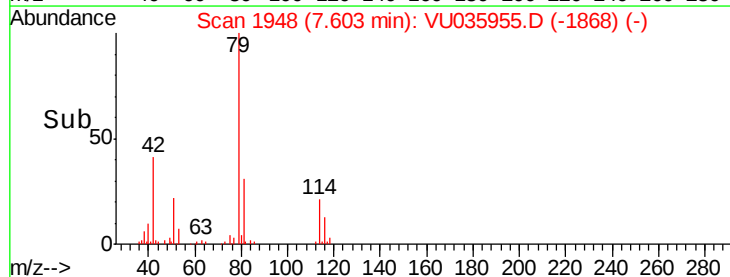
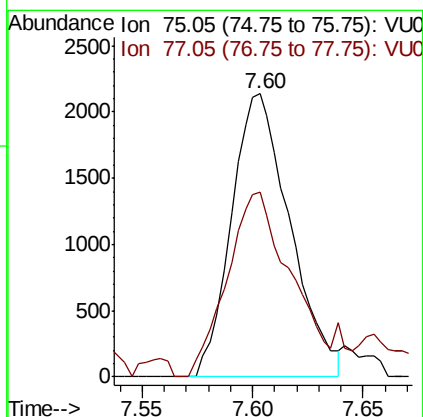
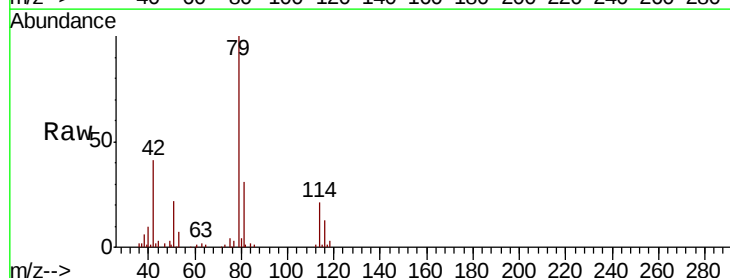
Instrument :
MSVOA_U
ClientSampleId :
BFE24

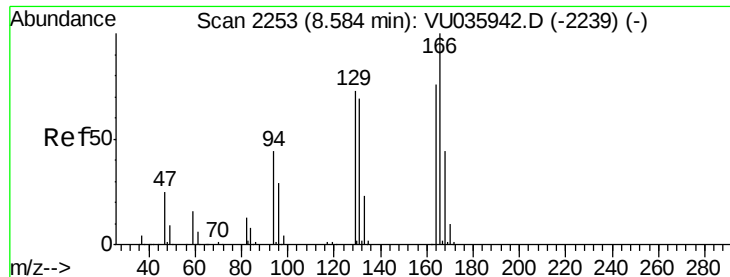
Tot Ion: 83 Resp: 34764
Ion Ratio Lower Upper
83 100
55 0.6 67.4 101.0#
98 0.0 34.6 52.0#



#39
cis-1,3-Dichloropropene
Concen: 0.102 ug/L
RT: 7.60 min Scan# 1948
Delta R.T. -0.04 min
Lab File: VU035955.D
Acq: 03 Dec 2019 18:21

Tgt Ion: 75 Resp: 3925
Ion Ratio Lower Upper
75 100
77 65.1 21.9 40.7#





#47

Tetrachloroethene

Concen: 49.586 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VU035955.D

Acq: 03 Dec 2019 18:21

Instrument :

MSVOA_U

ClientSampleId :

BFE24

Tot Ion:164 Resp: 1089571

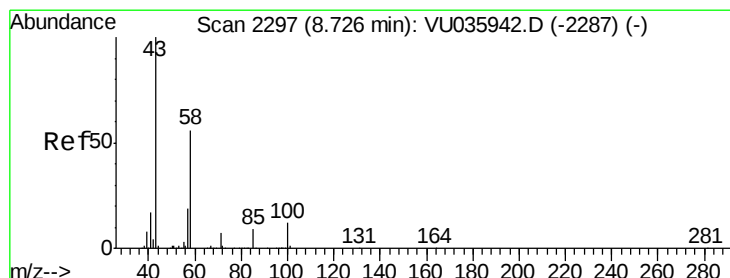
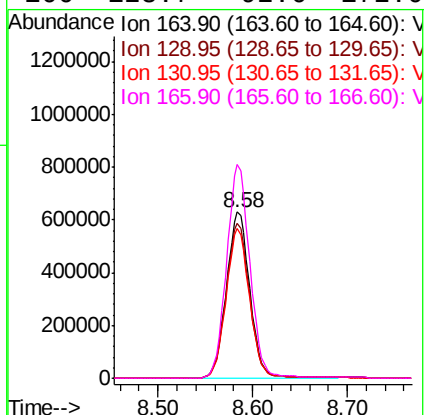
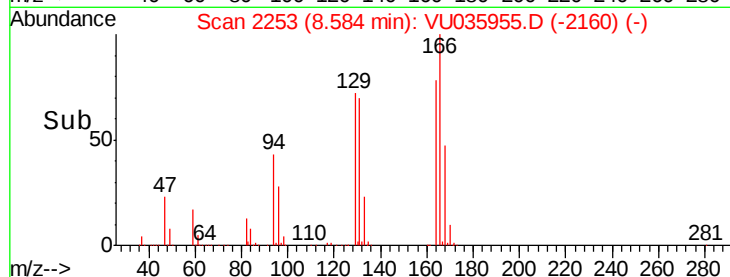
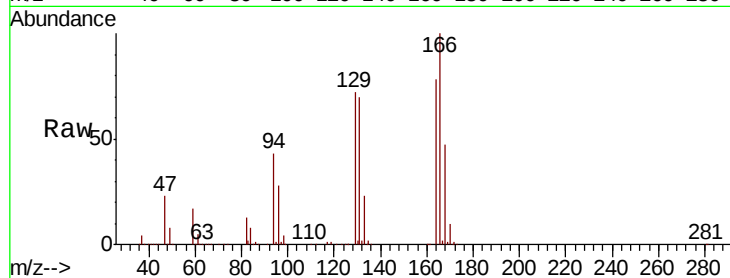
Ion Ratio Lower Upper

164 100

129 93.2 67.9 126.1

131 90.1 64.1 119.1

166 128.7 92.6 172.0



#48

2-Hexanone

Concen: 2.789 ug/L

RT: 8.68 min Scan# 2283

Delta R.T. -0.05 min

Lab File: VU035955.D

Acq: 03 Dec 2019 18:21

Tgt Ion: 43 Resp: 35052

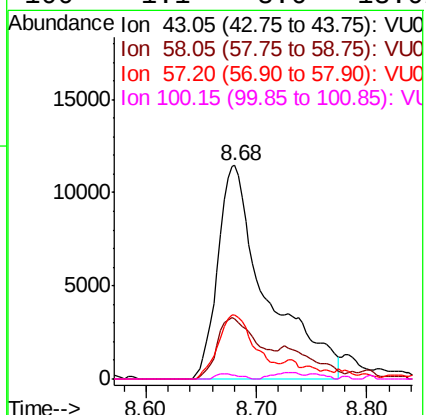
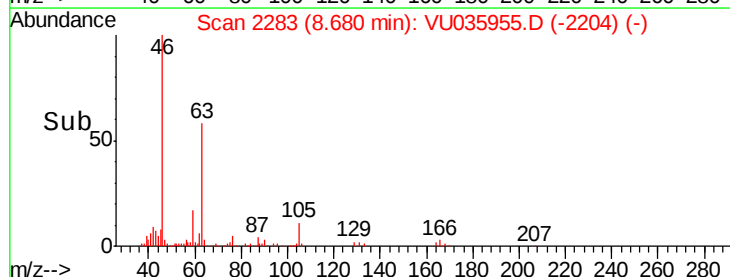
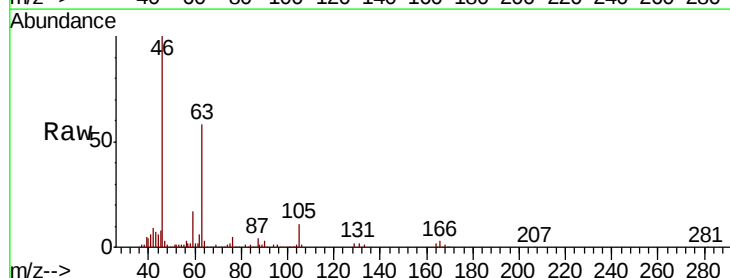
Ion Ratio Lower Upper

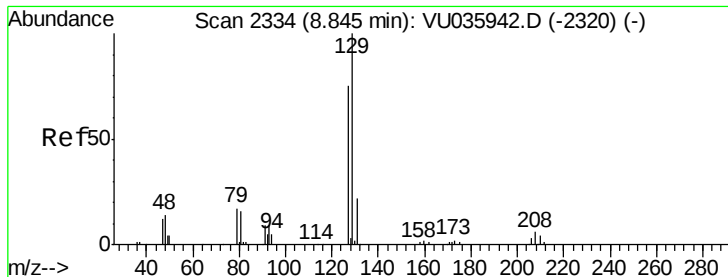
43 100

58 24.6 45.4 68.2#

57 23.4 14.9 22.3#

100 1.1 8.6 13.0#





#49

Dibromochloromethane

Concen: 41.015 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.26 min

Lab File: VU035955.D

Acq: 03 Dec 2019 18:21

Instrument :

MSVOA_U

ClientSampled :

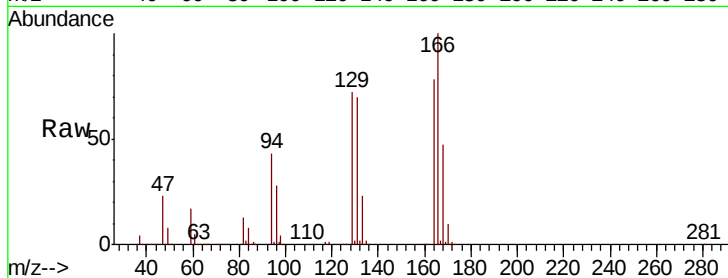
BFE24

Tot Ion:129 Resp: 985661

Ion Ratio Lower Upper

129 100

127 0.0 52.8 98.0#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.58

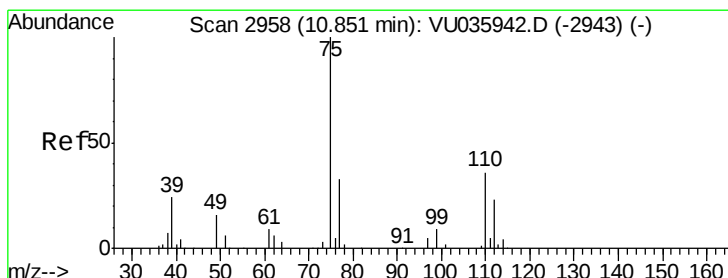
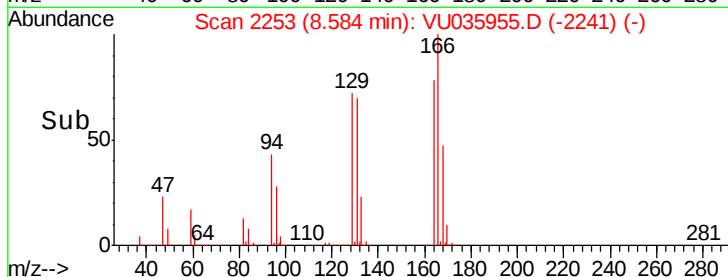
600000

400000

200000

0

Time--> 8.50 8.55 8.60 8.65



#59

1,2,3-Trichloropropane

Concen: 0.638 ug/L

RT: 11.84 min Scan# 3265

Delta R.T. 0.99 min

Lab File: VU035955.D

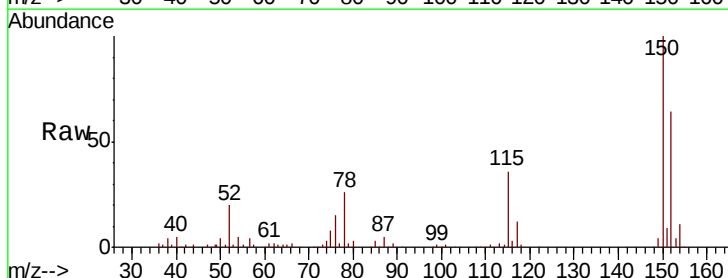
Acq: 03 Dec 2019 18:21

Tgt Ion: 75 Resp: 12003

Ion Ratio Lower Upper

75 100

77 35.1 26.6 39.8



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.84

8000

6000

4000

2000

0

Time--> 11.80 11.85 11.90

