

Data File : VU032249.D
Acq On : 23 May 2019 03:04
Operator : JC/SP
Sample : K3001-04MS
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
E3YF0

Quant Time: May 23 03:48:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu May 23 03:43:40 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	384831	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	389031	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	158409	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	112570	5.21	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	104.20%
7) Chloroethane-d5	1.67	69	100048	4.96	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.20%
11) 1,1-Dichloroethene-d2	2.27	63	230147	5.78	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	115.60%
20) 2-Butanone-d5	4.19	46	247236	40.56	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	81.12%
24) Chloroform-d	4.64	84	212800	3.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	77.00%
26) 1,2-Dichloroethane-d4	5.31	65	107690	3.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	73.60%
32) Benzene-d6	5.33	84	454157	4.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.20%
36) 1,2-Dichloropropane-d6	6.32	67	131446	3.66	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	73.20%
41) Toluene-d8	7.56	98	390433	3.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	72.80%
43) trans-1,3-Dichloropropene-	7.85	79	45266	3.28	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	65.60%
46) 2-Hexanone-d5	8.31	63	211433	40.76	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	81.52%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	105929	2.97	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	59.40%#
64) 1,2-Dichlorobenzene-d4	11.86	152	140982	3.23	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	64.60%#

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.31	85	3436	0.209 ug/L	91
3) Chloromethane	1.33	50	4459	0.270 ug/L	99
9) Trichlorofluoromethane	1.88	101	7116	0.330 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	2322	0.170 ug/L #	17
12) 1,1-Dichloroethene	2.28	96	131599	9.609 ug/L	79
13) Acetone	2.32	43	9689	5.130 ug/L	99
15) Methyl Acetate	2.62	43	956	0.172 ug/L #	53
18) trans-1,2-Dichloroethene	2.97	96	4842	0.329 ug/L	93
19) 1,1-Dichloroethane	3.44	63	160098	7.052 ug/L	98
22) cis-1,2-Dichloroethene	4.22	96	24404	1.701 ug/L	95
25) Chloroform	4.67	83	20558	0.838 ug/L	98
29) 1,1,1-Trichloroethane	4.90	97	128862	6.382 ug/L	98
31) Carbon tetrachloride	4.91	117	17698	0.995 ug/L	99
33) Benzene	5.38	78	497202	9.448 ug/L	100
34) Trichloroethene	6.18	95	158645	11.232 ug/L	92
35) Methylcyclohexane	6.33	83	32559	1.565 ug/L #	20
37) 1,2-Dichloropropane	6.33	63	12878	1.016 ug/L #	87

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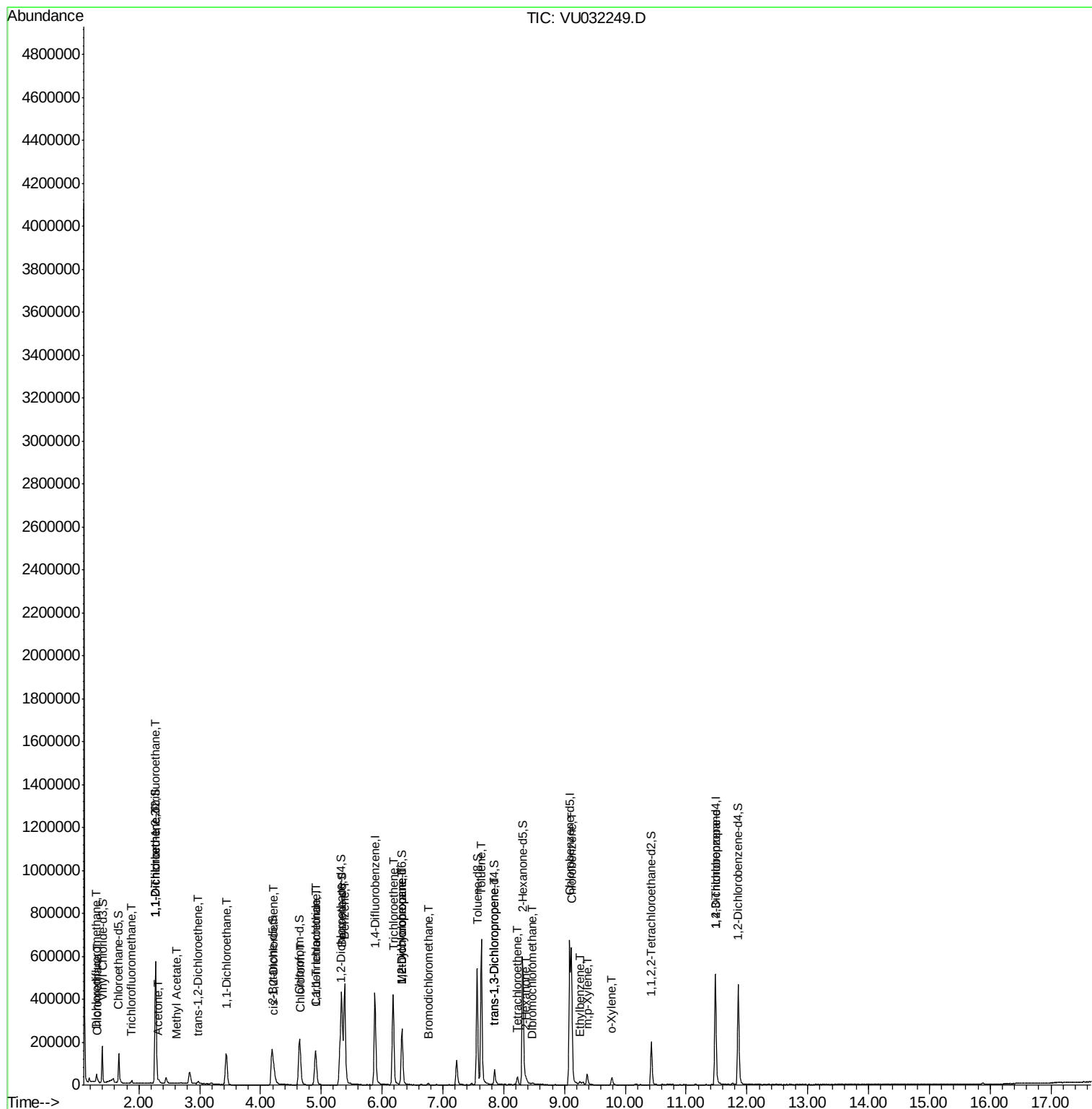
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Bromodichloromethane	6.76	83	4817	0.293	ug/L #	98
42) Toluene	7.63	91	531061	9.498	ug/L	97
44) trans-1,3-Dichloropropene	7.85	75	1954	0.138	ug/L	84
47) Tetrachloroethene	8.22	164	8912	0.764	ug/L	94
48) 2-Hexanone	8.37	43	6722	1.368	ug/L #	41
49) Dibromochloromethane	8.47	129	1338	0.120	ug/L	100
51) Chlorobenzene	9.12	112	355493	9.934	ug/L	98
52) Ethylbenzene	9.25	91	7812	0.139	ug/L #	83
53) m,p-Xylene	9.37	106	15858	0.758	ug/L	91
54) o-Xylene	9.78	106	9754	0.466	ug/L	85
59) 1,2,3-Trichloropropane	11.48	75	16395	1.987	ug/L #	39

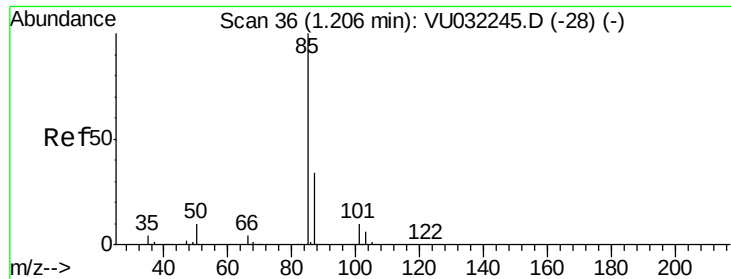
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.209 ug/L

RT: 1.31 min Scan# 67

Delta R.T. 0.10 min

Lab File: VU032249.D

Acq: 23 May 2019 03:04

Instrument :

MSVOA_U

ClientSampleId :

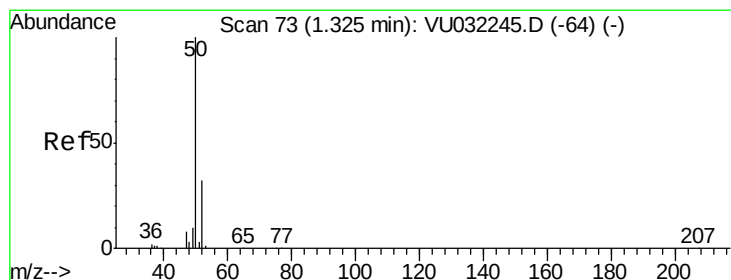
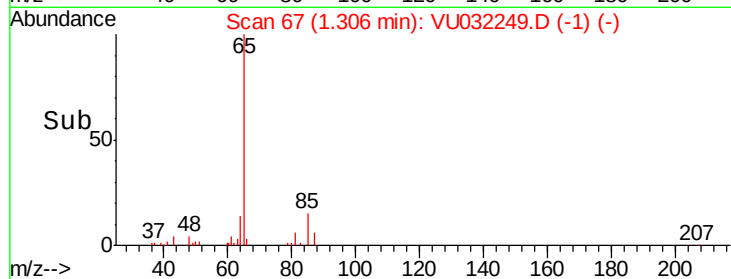
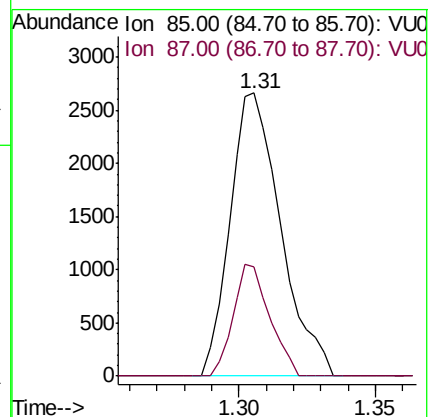
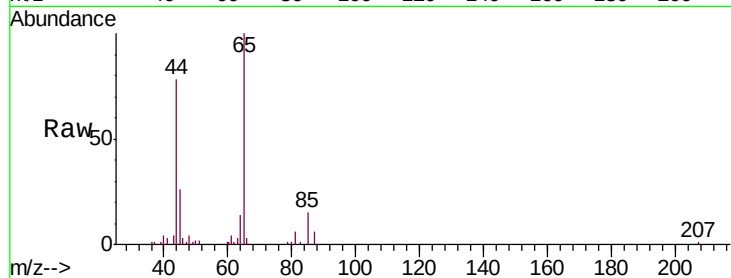
E3YF0

Tgt Ion: 85 Resp: 3436

Ion Ratio Lower Upper

85 100

87 28.3 26.6 39.8



#3

Chloromethane

Concen: 0.270 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU032249.D

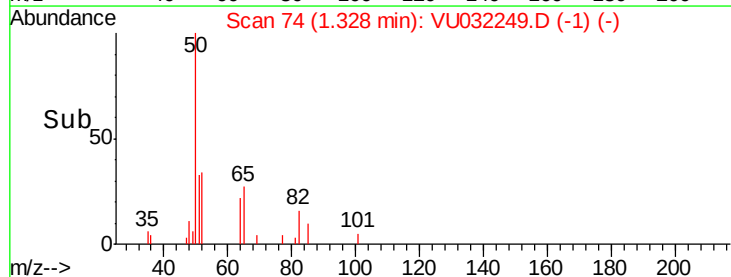
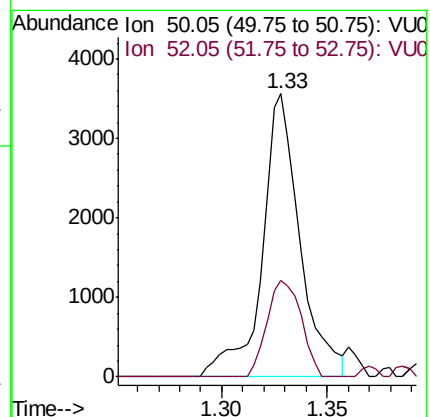
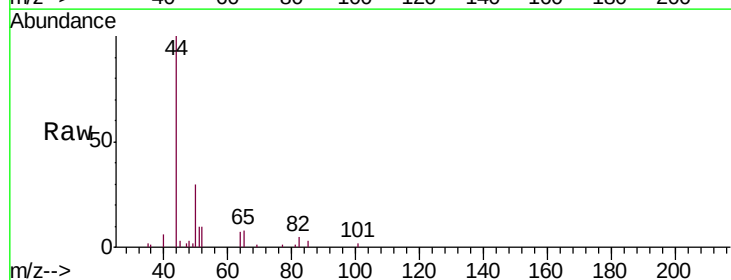
Acq: 23 May 2019 03:04

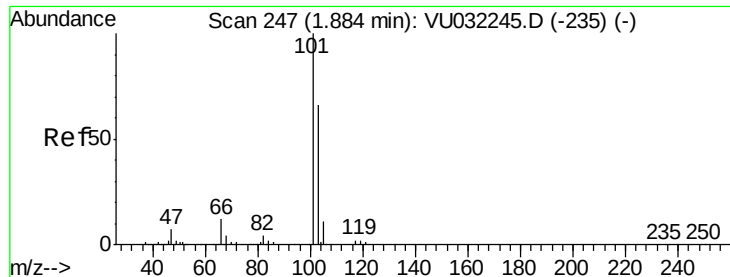
Tgt Ion: 50 Resp: 4459

Ion Ratio Lower Upper

50 100

52 34.1 23.3 43.3





#9

Trichlorofluoromethane

Concen: 0.330 ug/L

RT: 1.88 min Scan# 246

Delta R.T. -0.00 min

Lab File: VU032249.D

Acq: 23 May 2019 03:04

Instrument :

MSVOA_U

ClientSampleId :

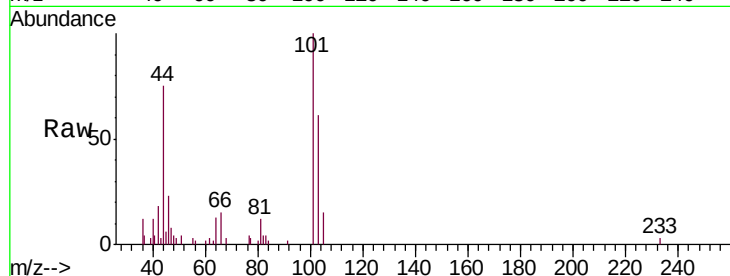
E3YF0

Tgt Ion:101 Resp: 7116

Ion Ratio Lower Upper

101 100

103 67.0 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

6000

5000

4000

3000

2000

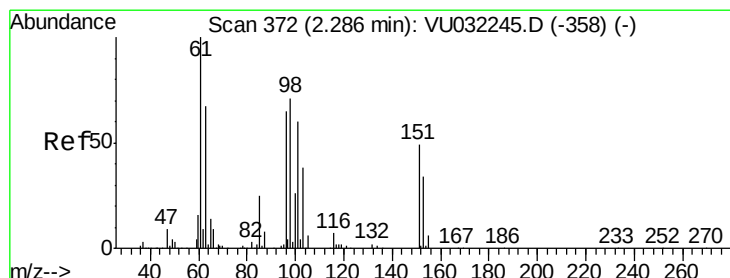
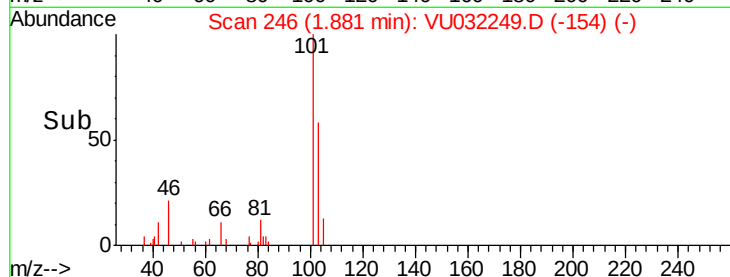
1000

0

1.85

1.90

Time-->



#10

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

Concen: 0.170 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.02 min

Lab File: VU032249.D

Acq: 23 May 2019 03:04

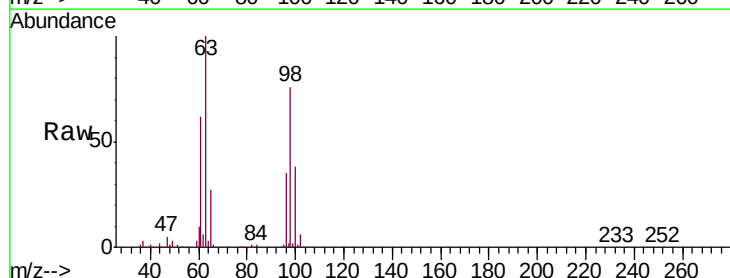
Tgt Ion:101 Resp: 2322

Ion Ratio Lower Upper

101 100

85 0.0 34.2 51.4#

151 0.0 64.4 96.6#



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

1500

1000

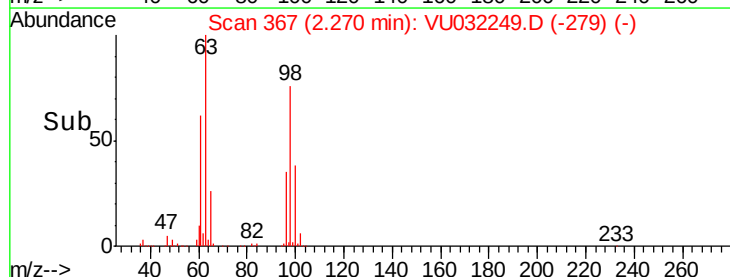
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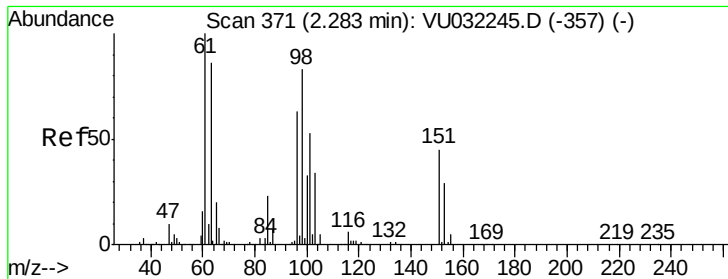
0

2.25

2.30

Time-->

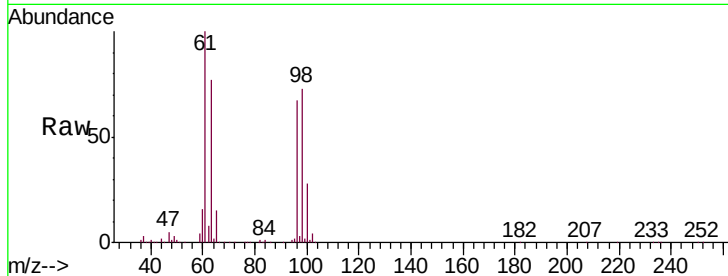




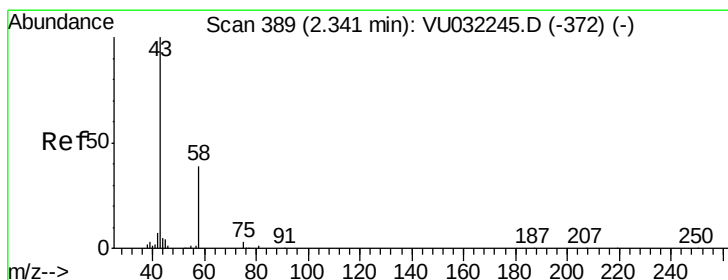
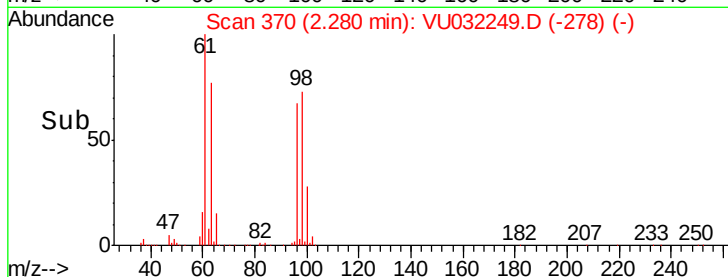
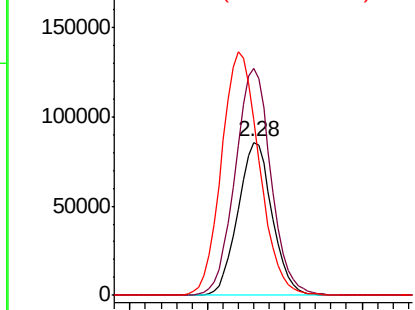
#12
 1,1-Dichloroethene
 Concen: 9.609 ug/L
 RT: 2.28 min Scan# 370
 Delta R.T. -0.00 min
 Lab File: VU032249.D
 Acq: 23 May 2019 03:04

Instrument :
 MSVOA_U
 ClientSampleId :
 E3YF0

Tgt Ion: 96 Resp: 131599
 Ion Ratio Lower Upper
 96 100
 61 148.5 113.8 211.3
 63 114.3 108.8 202.2

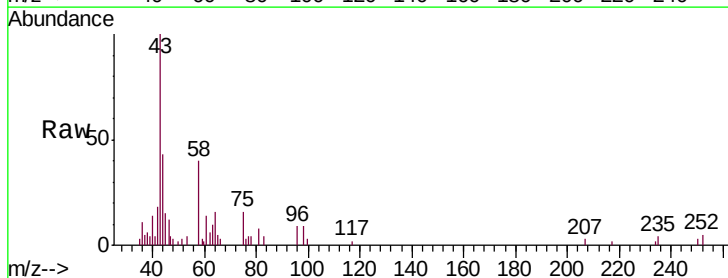


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 63.00 (62.70 to 63.70): VU0

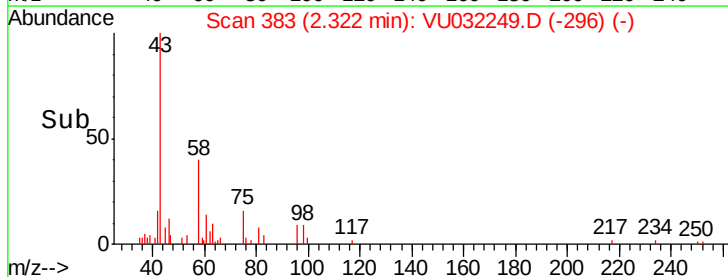
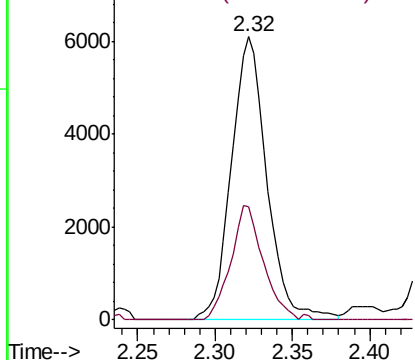


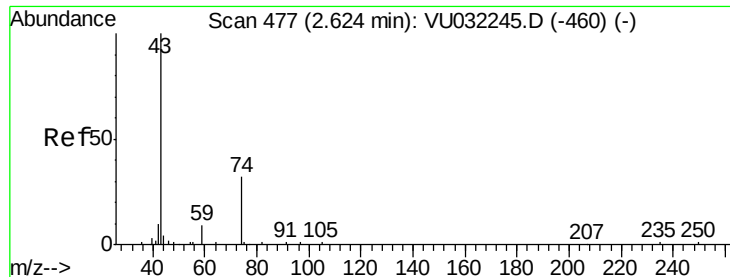
#13
 Acetone
 Concen: 5.130 ug/L
 RT: 2.32 min Scan# 383
 Delta R.T. -0.02 min
 Lab File: VU032249.D
 Acq: 23 May 2019 03:04

Tgt Ion: 43 Resp: 9689
 Ion Ratio Lower Upper
 43 100
 58 36.8 0.0 72.6



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

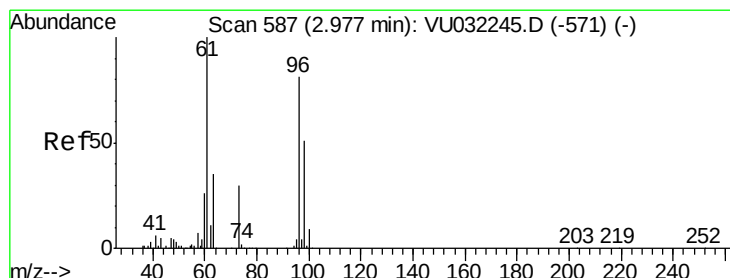
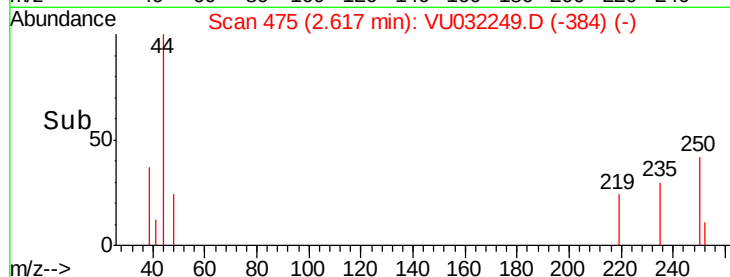
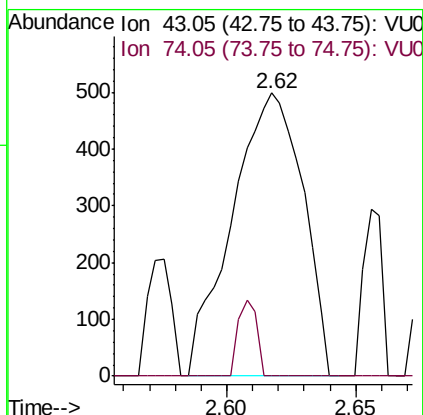
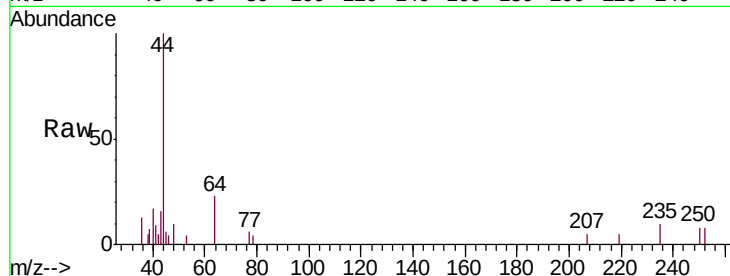




#15
Methyl Acetate
Concen: 0.172 ug/L
RT: 2.62 min Scan# 475
Delta R.T. -0.01 min
Lab File: VU032249.D
Acq: 23 May 2019 03:04

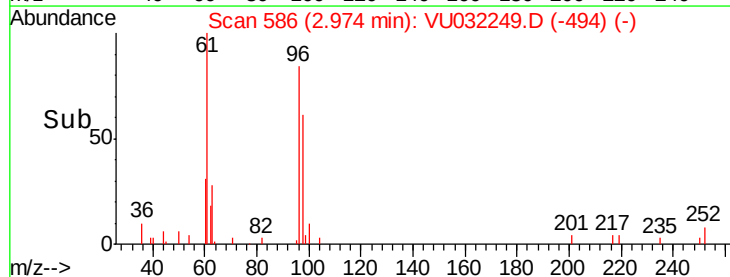
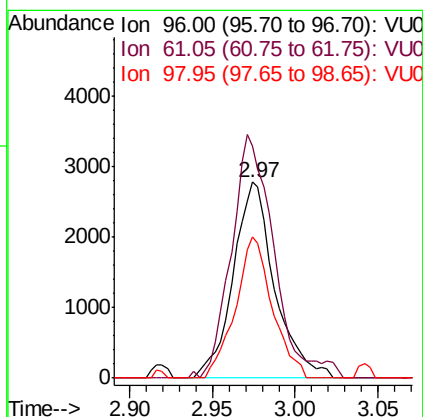
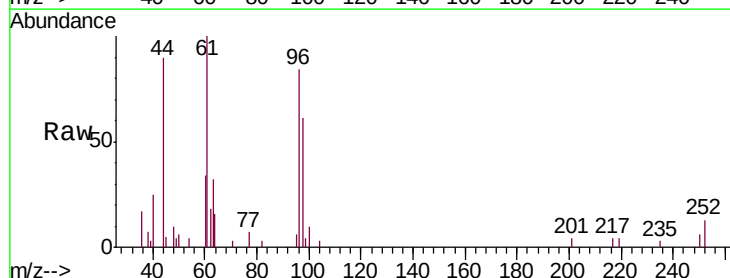
Instrument :
MSVOA_U
ClientSampled :
E3YF0

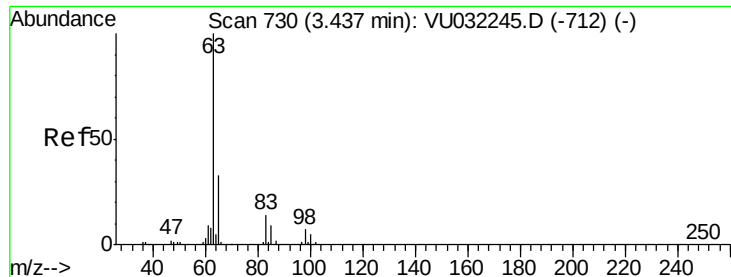
Tgt Ion: 43 Resp: 956
Ion Ratio Lower Upper
43 100
74 7.0 27.3 40.9#



#18
trans-1,2-Dichloroethene
Concen: 0.329 ug/L
RT: 2.97 min Scan# 586
Delta R.T. -0.00 min
Lab File: VU032249.D
Acq: 23 May 2019 03:04

Tgt Ion: 96 Resp: 4842
Ion Ratio Lower Upper
96 100
61 118.6 90.6 168.3
98 72.5 49.5 91.9

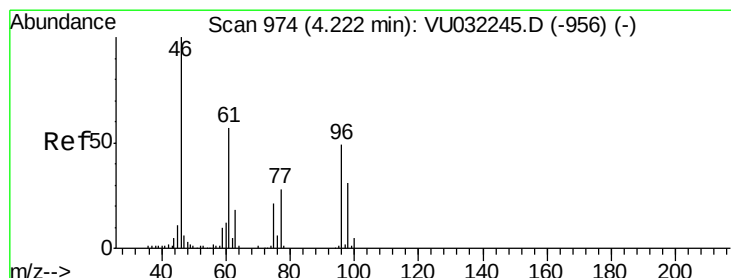
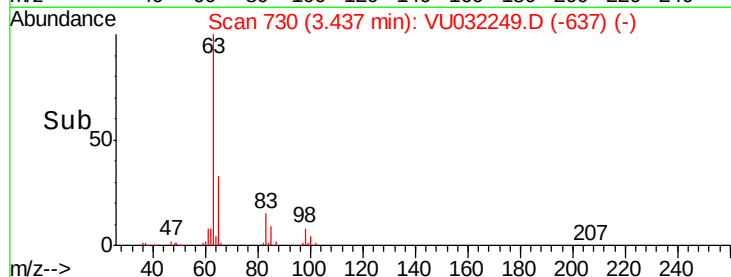
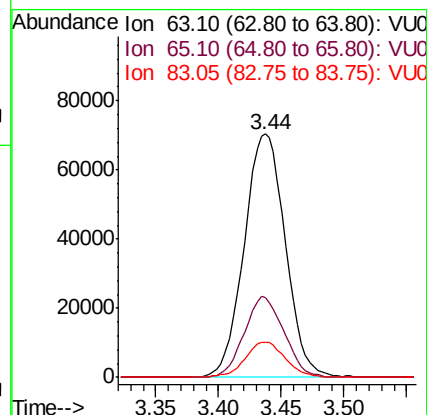
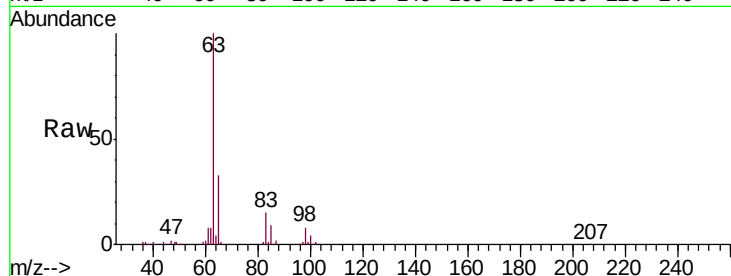




#19
 1,1-Dichloroethane
 Concen: 7.052 ug/L
 RT: 3.44 min Scan# 730
 Delta R.T. 0.00 min
 Lab File: VU032249.D
 Acq: 23 May 2019 03:04

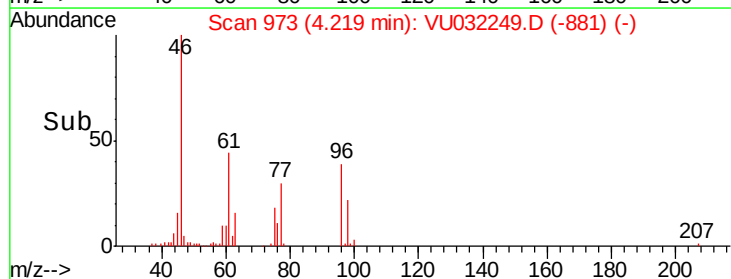
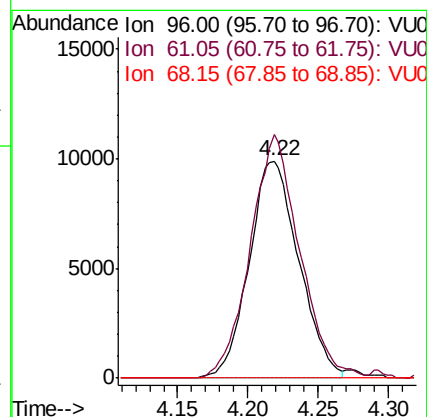
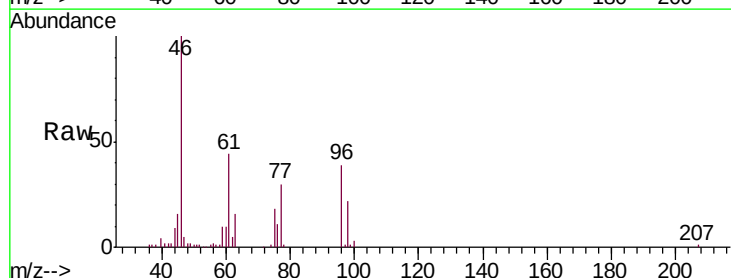
Instrument :
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 ClientSampleId :
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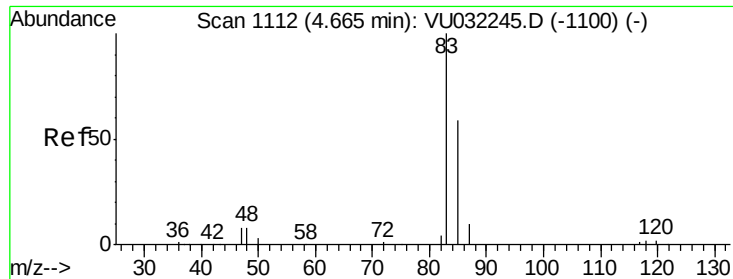
Tgt Ion: 63 Resp: 160098
 Ion Ratio Lower Upper
 63 100
 65 32.9 23.5 43.7
 83 14.6 8.8 16.3



#22
 cis-1,2-Dichloroethene
 Concen: 1.701 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU032249.D
 Acq: 23 May 2019 03:04

Tgt Ion: 96 Resp: 24404
 Ion Ratio Lower Upper
 96 100
 61 112.2 82.5 153.1
 68 0.0 0.0 0.0

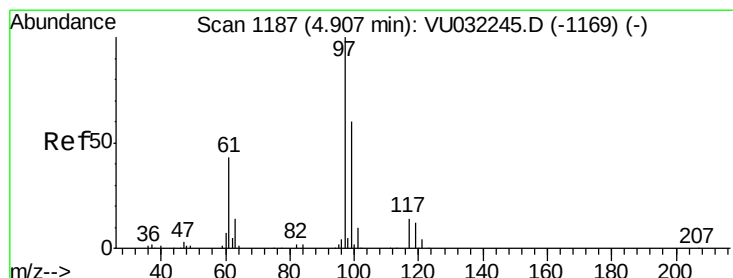
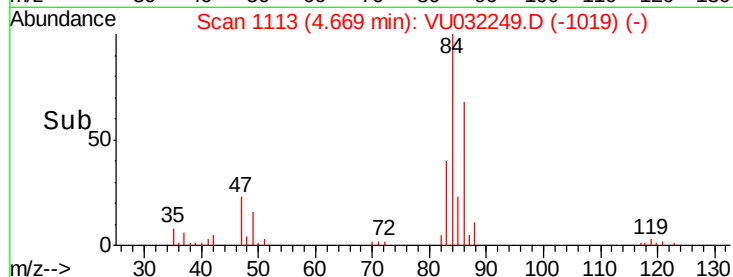
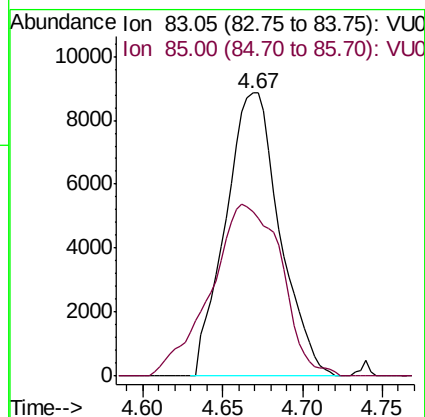
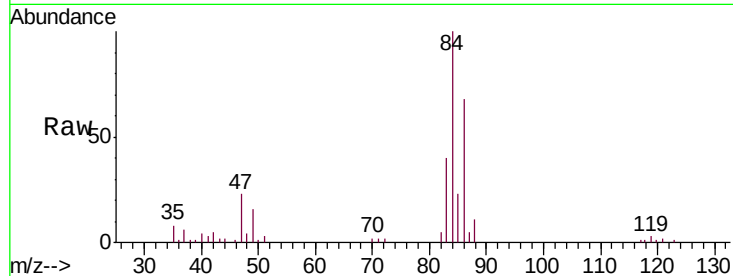




#25
Chloroform
Concen: 0.838 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU032249.D
Acq: 23 May 2019 03:04

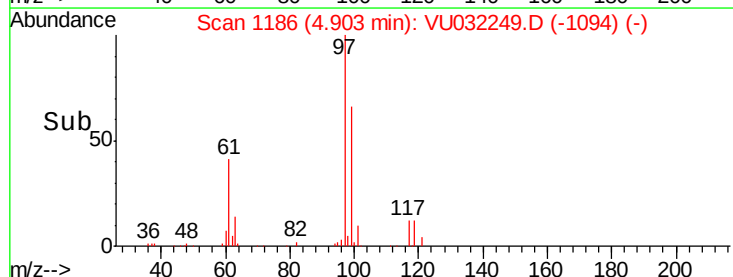
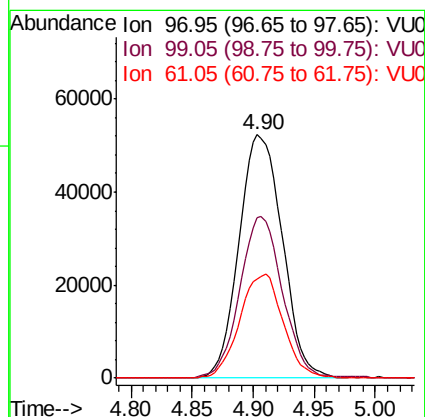
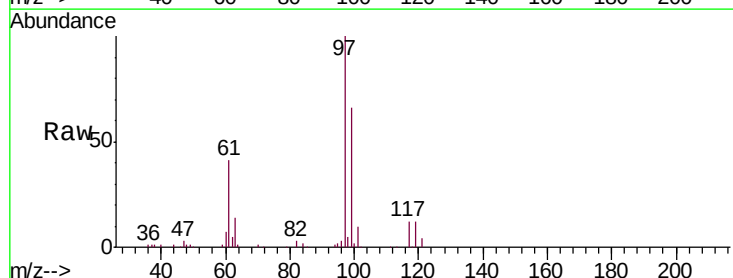
Instrument :
MSVOA_U
ClientSampleId :
E3YF0

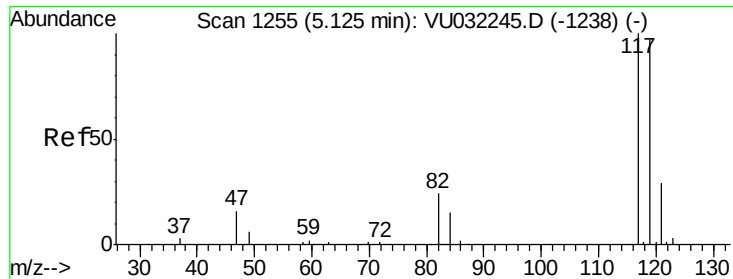
Tgt Ion: 83 Resp: 20558
Ion Ratio Lower Upper
83 100
85 57.8 41.6 77.3



#29
1,1,1-Trichloroethane
Concen: 6.382 ug/L
RT: 4.90 min Scan# 1186
Delta R.T. -0.00 min
Lab File: VU032249.D
Acq: 23 May 2019 03:04

Tgt Ion: 97 Resp: 128862
Ion Ratio Lower Upper
97 100
99 65.2 50.3 75.5
61 42.7 34.1 51.1

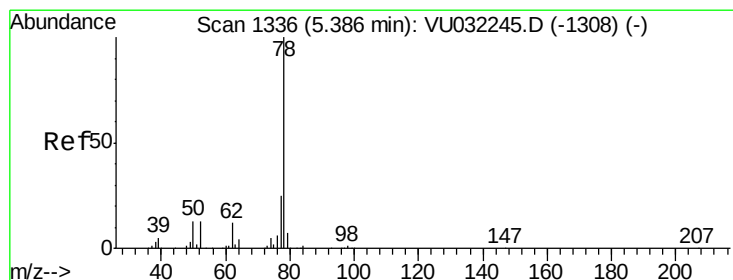
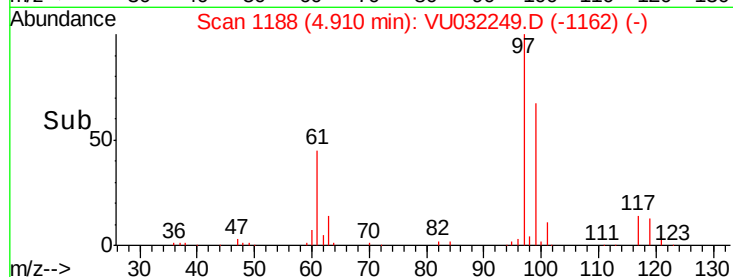
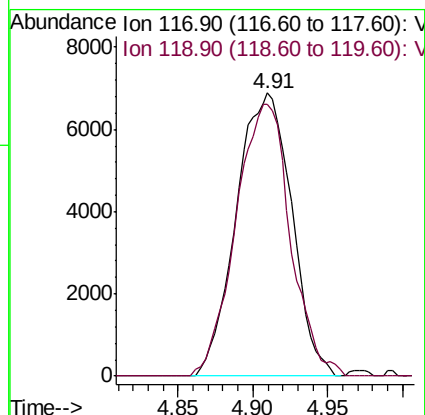
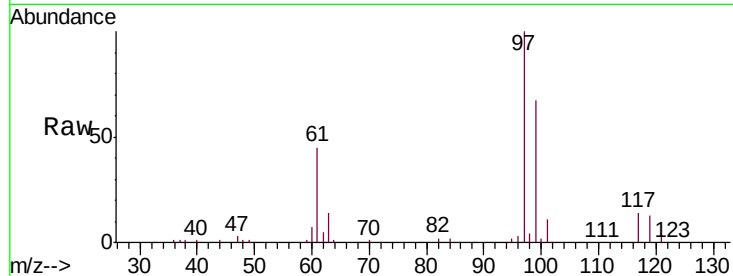




#31
Carbon tetrachloride
Concen: 0.995 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. -0.22 min
Lab File: VU032249.D
Acq: 23 May 2019 03:04

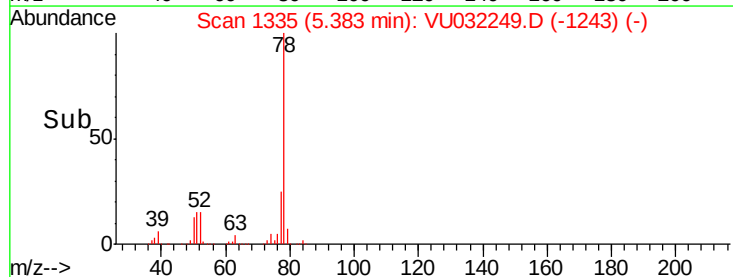
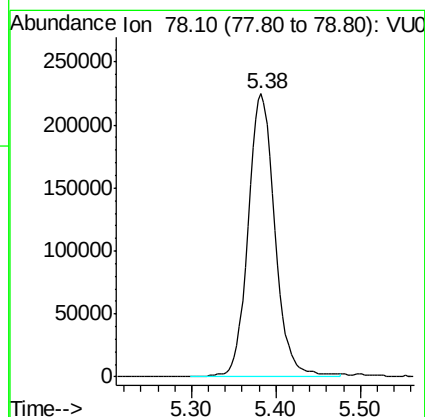
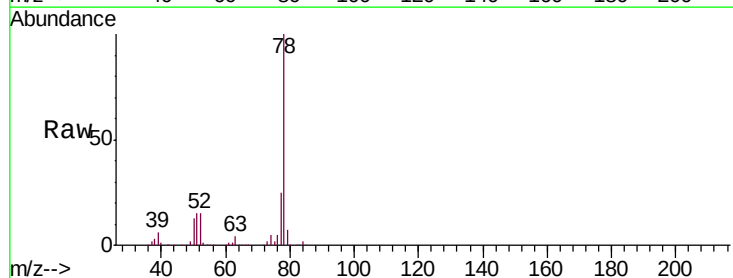
Instrument :
MSVOA_U
ClientSampleId :
E3YF0

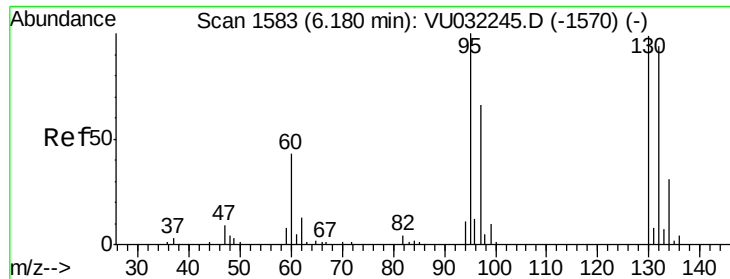
Tgt Ion:117 Resp: 17698
Ion Ratio Lower Upper
117 100
119 94.7 76.9 115.3



#33
Benzene
Concen: 9.448 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU032249.D
Acq: 23 May 2019 03:04

Tgt Ion: 78 Resp: 497202





#34

Trichloroethene

Concen: 11.232 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032249.D

Acq: 23 May 2019 03:04

Instrument :

MSVOA_U

ClientSampleId :

E3YF0

Tgt Ion: 95 Resp: 158645

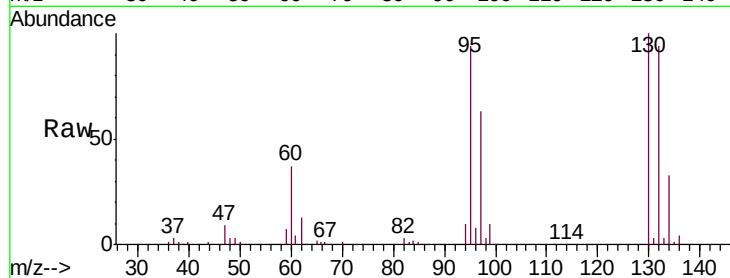
Ion Ratio Lower Upper

95 100

97 67.5 39.9 74.1

132 99.8 65.9 122.5

130 106.3 70.6 131.2

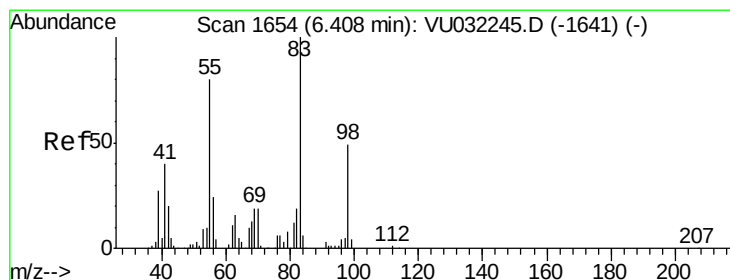
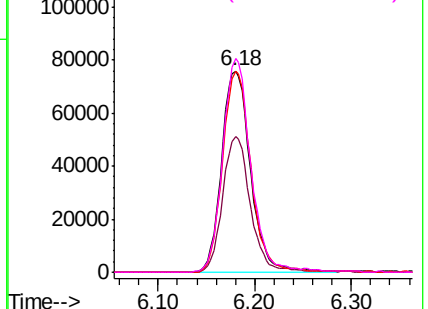
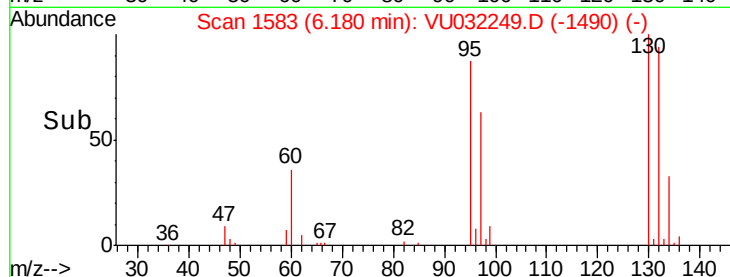


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 1.565 ug/L

RT: 6.33 min Scan# 1629

Delta R.T. -0.08 min

Lab File: VU032249.D

Acq: 23 May 2019 03:04

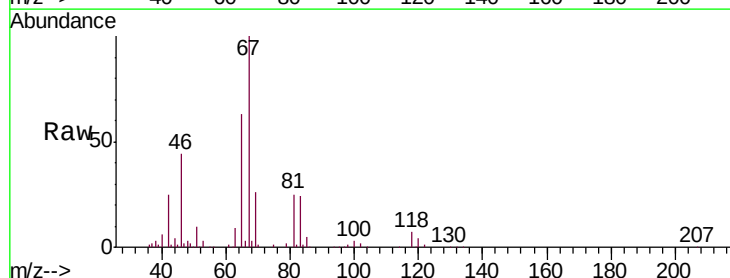
Tgt Ion: 83 Resp: 32559

Ion Ratio Lower Upper

83 100

55 0.3 59.7 89.5#

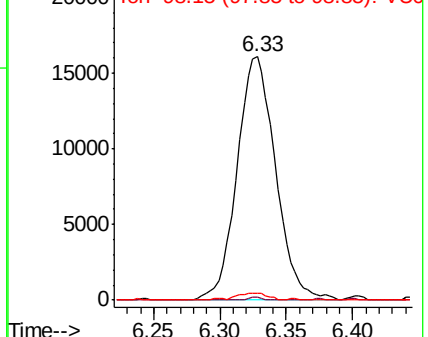
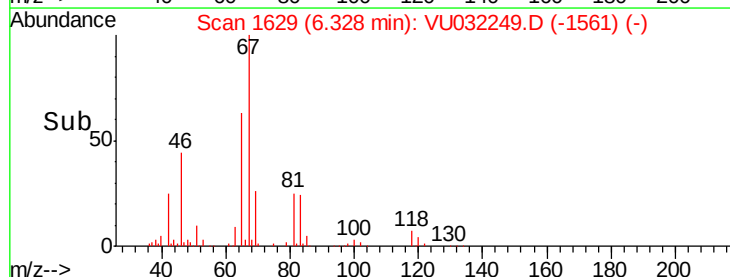
98 2.1 37.5 56.3#

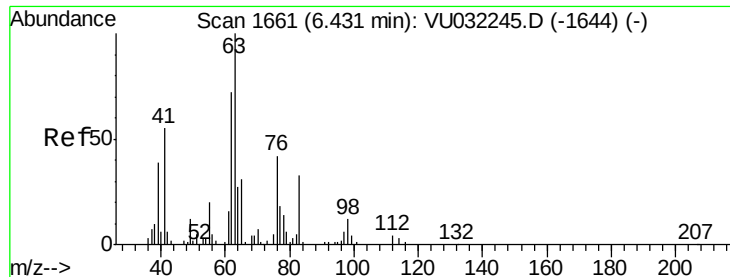


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

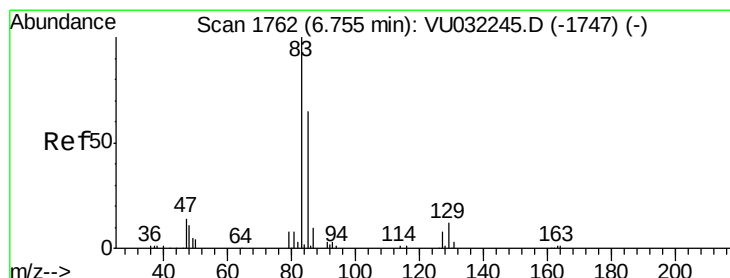
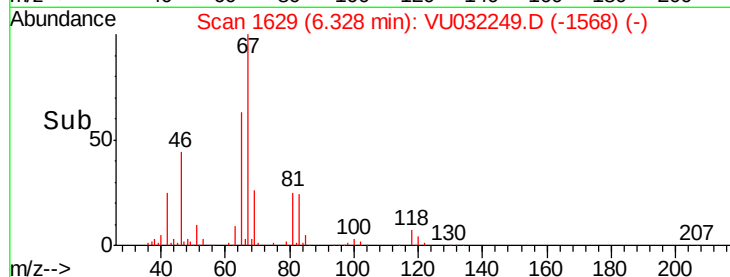
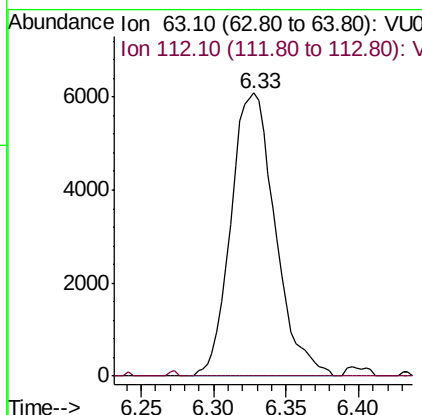
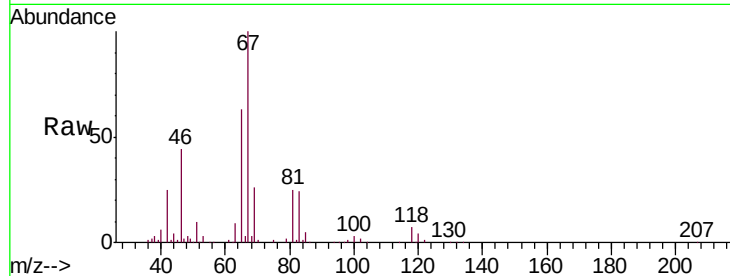




#37
 1,2-Dichloropropane
 Concen: 1.016 ug/L
 RT: 6.33 min Scan# 1629
 Delta R.T. -0.10 min
 Lab File: VU032249.D
 Acq: 23 May 2019 03:04

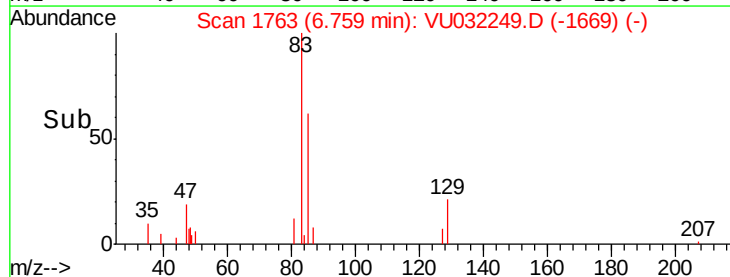
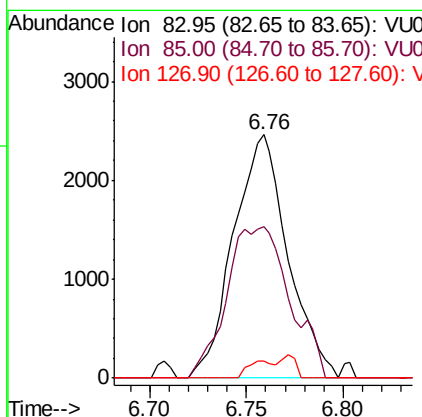
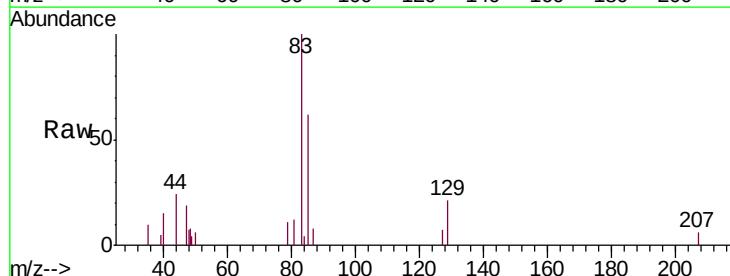
Instrument :
 MSVOA_U
 ClientSampleId :
 E3YF0

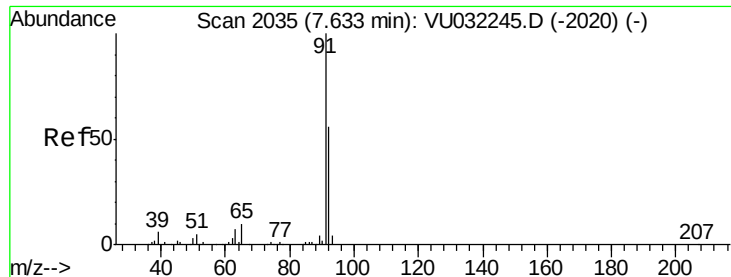
Tgt Ion: 63 Resp: 12878
 Ion Ratio Lower Upper
 63 100
 112 0.3 3.8 5.8#



#38
 Bromodichloromethane
 Concen: 0.293 ug/L
 RT: 6.76 min Scan# 1763
 Delta R.T. 0.00 min
 Lab File: VU032249.D
 Acq: 23 May 2019 03:04

Tgt Ion: 83 Resp: 4817
 Ion Ratio Lower Upper
 83 100
 85 62.1 44.4 82.4
 127 7.0 7.0 10.6#





#42

Toluene

Concen: 9.498 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032249.D

Acq: 23 May 2019 03:04

Instrument :

MSVOA_U

ClientSampleId :

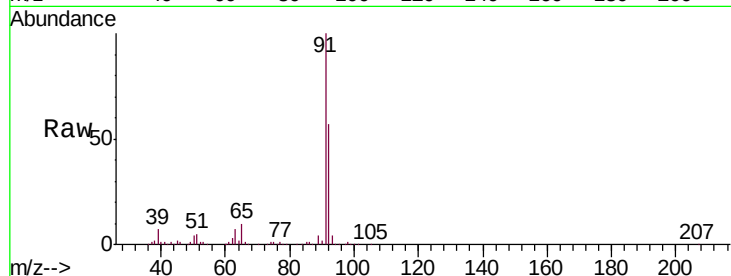
E3YF0

Tgt Ion: 91 Resp: 531061

Ion Ratio Lower Upper

91 100

92 57.0 38.5 71.5



Abundance Ion 91.15 (90.85 to 91.85): VU032245.D (-2020) (-)

Ion 92.15 (91.85 to 92.85): VU032245.D (-2020) (-)

7.63

300000

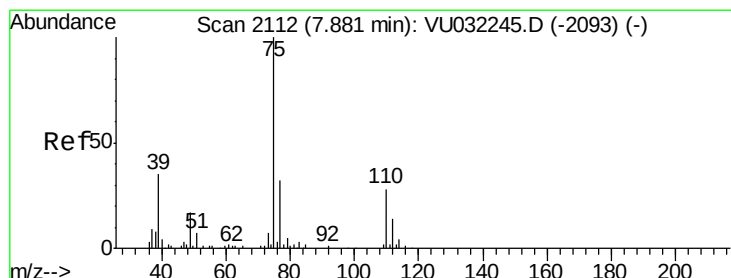
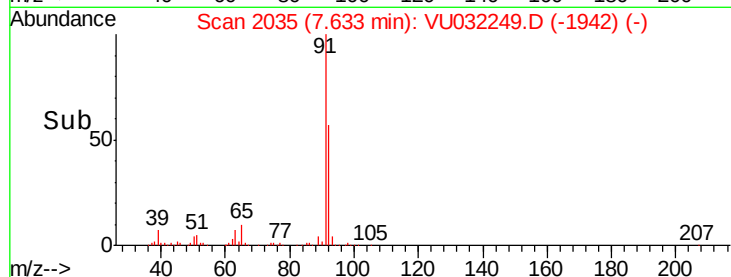
200000

100000

0

7.60 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.138 ug/L

RT: 7.85 min Scan# 2103

Delta R.T. -0.03 min

Lab File: VU032249.D

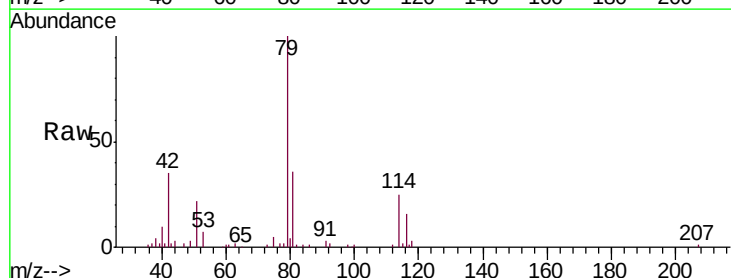
Acq: 23 May 2019 03:04

Tgt Ion: 75 Resp: 1954

Ion Ratio Lower Upper

75 100

77 41.3 22.5 41.9



Abundance Ion 75.05 (74.75 to 75.75): VU032245.D (-2093) (-)

Ion 77.05 (76.75 to 77.75): VU032245.D (-2093) (-)

7.85

1200

1000

800

600

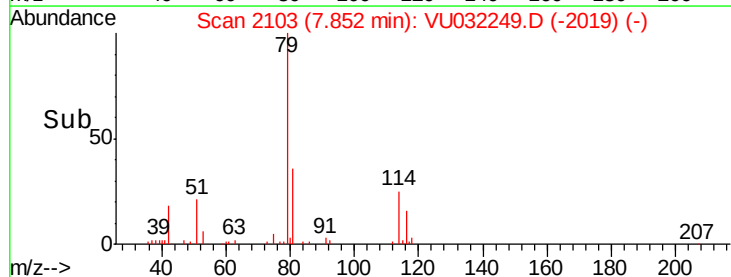
400

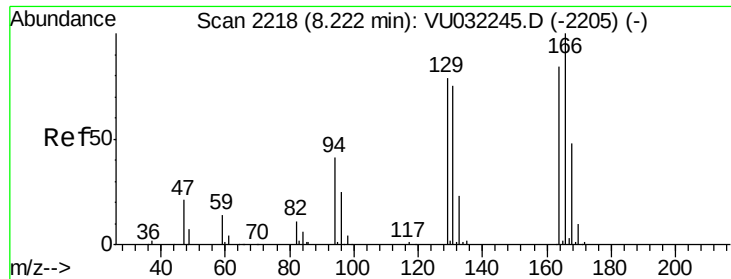
200

0

7.80 7.85 7.90

Time-->

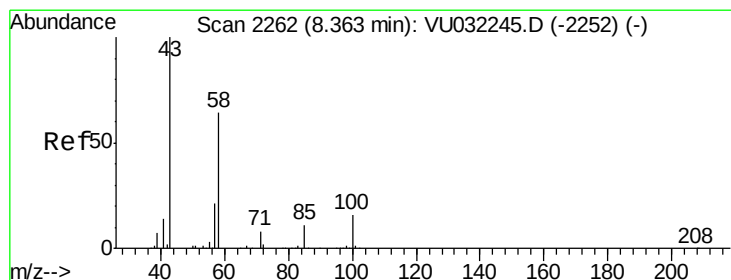
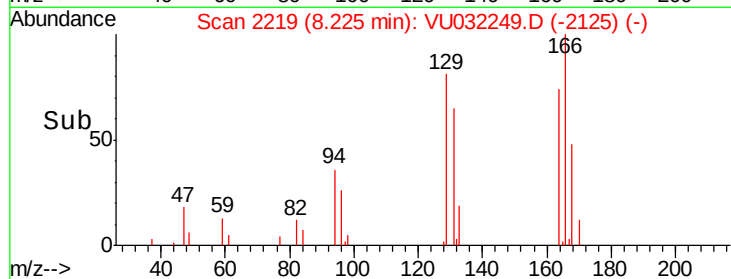
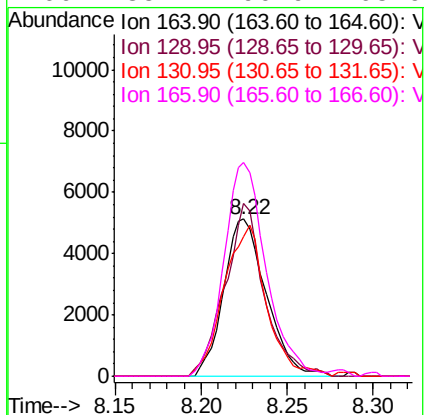
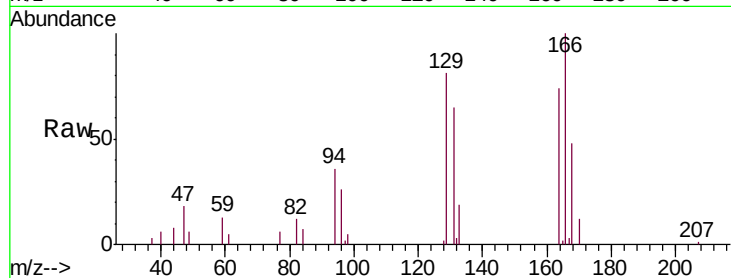




#47
Tetrachloroethene
Concen: 0.764 ug/L
RT: 8.22 min Scan# 2219
Delta R.T. 0.00 min
Lab File: VU032249.D
Acq: 23 May 2019 03:04

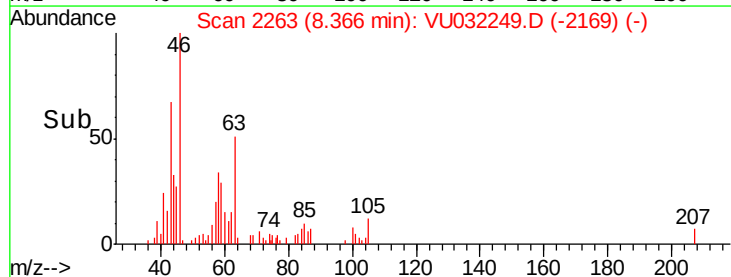
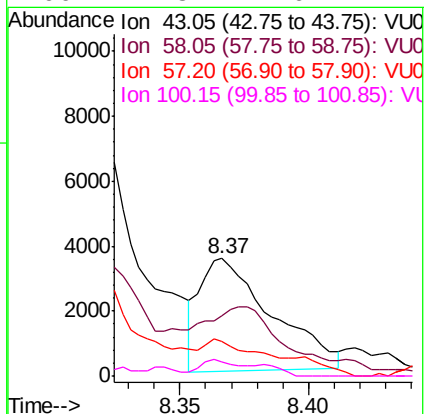
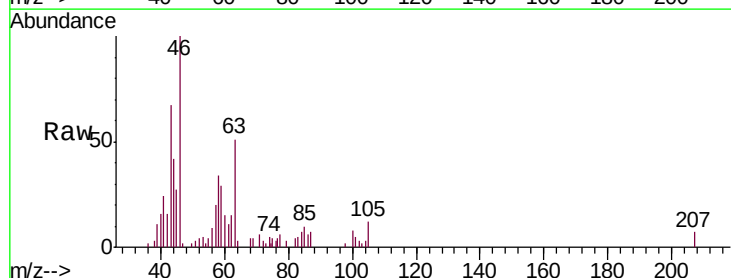
Instrument :
MSVOA_U
ClientSampleId :
E3YF0

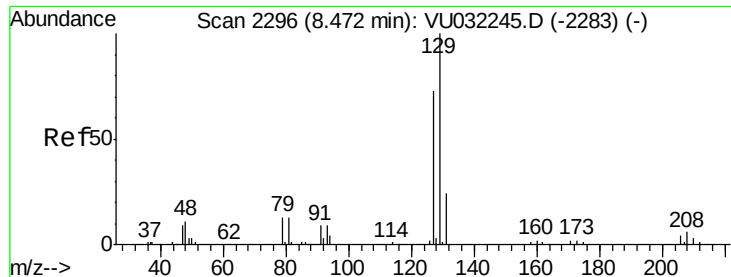
Tgt Ion: 164 Resp: 8912
Ion Ratio Lower Upper
164 100
129 109.5 67.1 124.7
131 88.6 62.2 115.4
166 135.7 90.9 168.9



#48
2-Hexanone
Concen: 1.368 ug/L
RT: 8.37 min Scan# 2263
Delta R.T. 0.00 min
Lab File: VU032249.D
Acq: 23 May 2019 03:04

Tgt Ion: 43 Resp: 6722
Ion Ratio Lower Upper
43 100
58 0.0 49.7 74.5#
57 32.7 17.1 25.7#
100 7.8 11.6 17.4#





#49

Dibromochloromethane

Concen: 0.120 ug/L

RT: 8.47 min Scan# 2294

Delta R.T. -0.01 min

Lab File: VU032249.D

Acq: 23 May 2019 03:04

Instrument :

MSVOA_U

ClientSampleId :

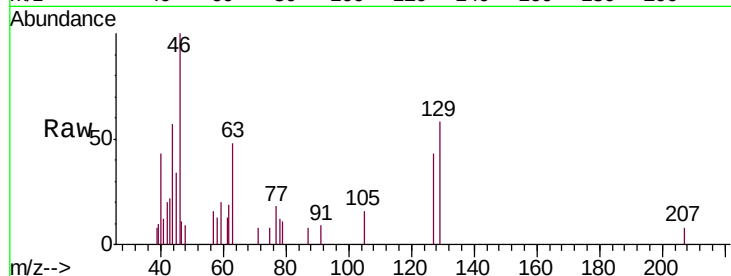
E3YF0

Tgt Ion:129 Resp: 1338

Ion Ratio Lower Upper

129 100

127 73.9 51.7 95.9



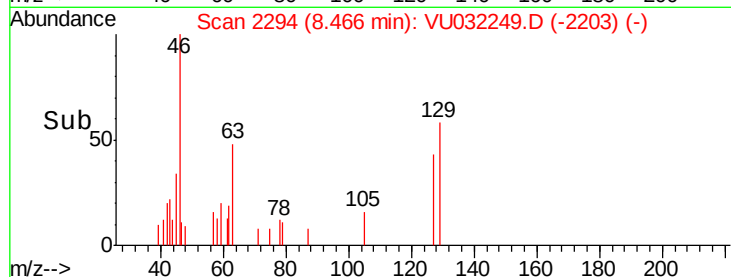
Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

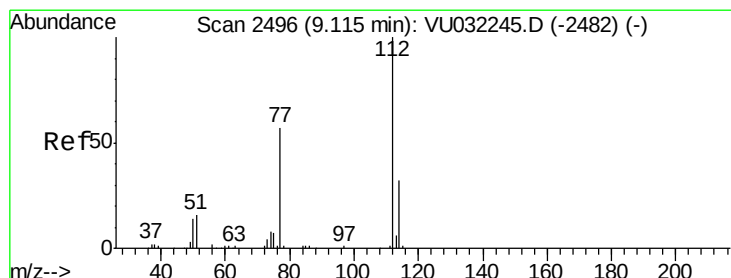
8.47

8.45

8.50



Time-->



#51

Chlorobenzene

Concen: 9.934 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU032249.D

Acq: 23 May 2019 03:04

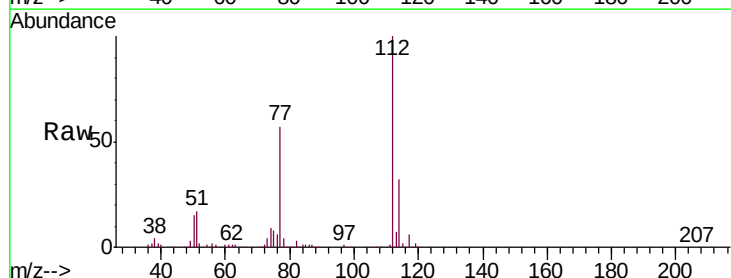
Tgt Ion:112 Resp: 355493

Ion Ratio Lower Upper

112 100

114 32.5 22.6 42.0

77 56.8 46.8 70.2



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): VU

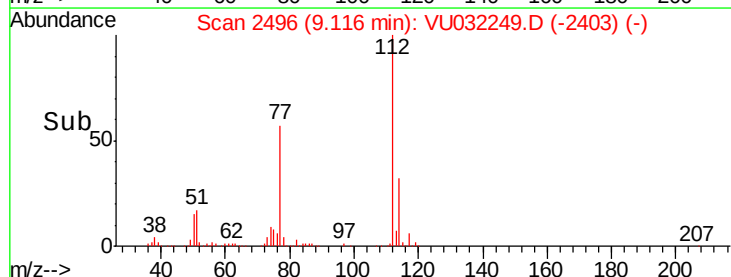
9.12

9.05

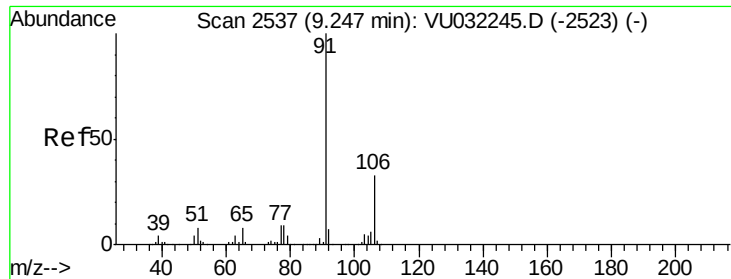
9.10

9.15

9.20



Time-->



#52

Ethylbenzene

Concen: 0.139 ug/L

RT: 9.25 min Scan# 2539

Delta R.T. 0.01 min

Lab File: VU032249.D

Acq: 23 May 2019 03:04

Instrument :

MSVOA_U

ClientSampleId :

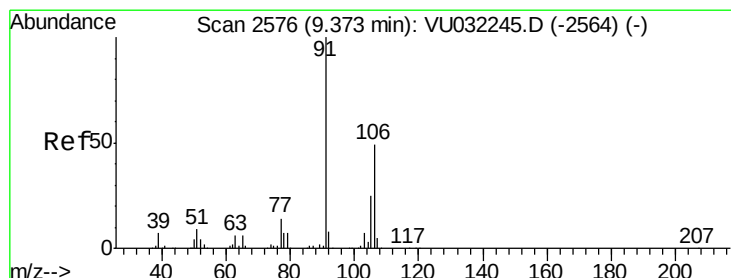
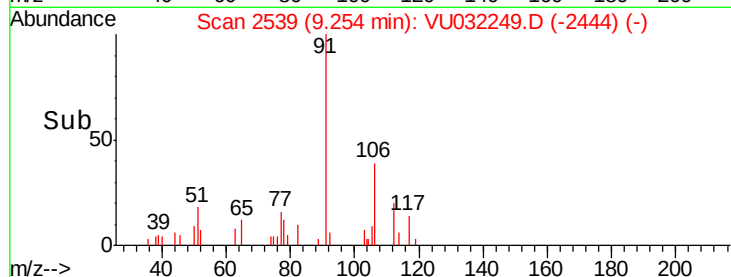
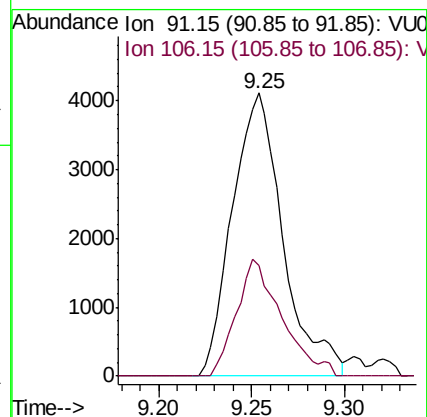
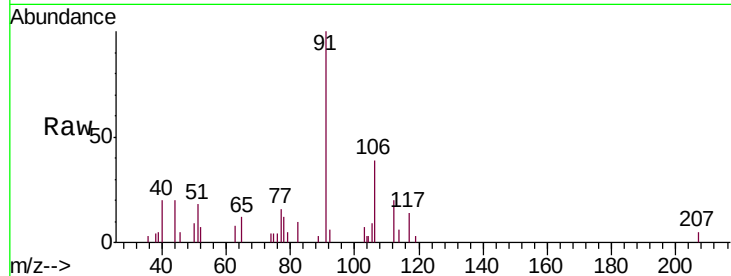
E3YF0

Tgt Ion: 91 Resp: 7812

Ion Ratio Lower Upper

91 100

106 39.2 20.9 38.9#



#53

m,p-Xylene

Concen: 0.758 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU032249.D

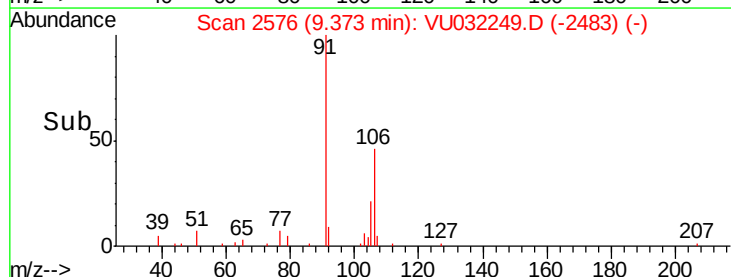
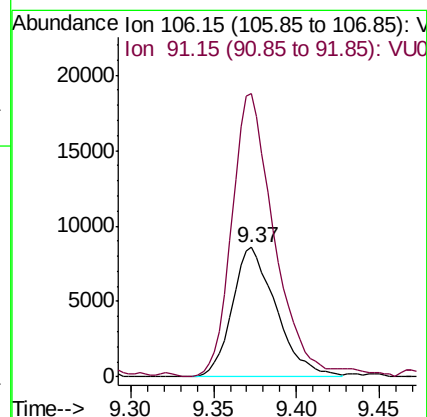
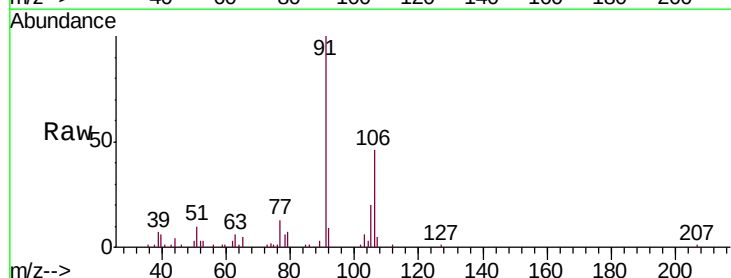
Acq: 23 May 2019 03:04

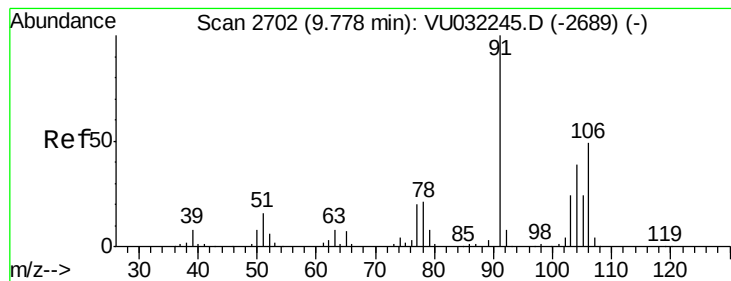
Tgt Ion: 106 Resp: 15858

Ion Ratio Lower Upper

106 100

91 218.6 143.9 267.2





#54

o-Xylene

Concen: 0.466 ug/L

RT: 9.78 min Scan# 2703

Delta R.T. 0.00 min

Lab File: VU032249.D

Acq: 23 May 2019 03:04

Instrument :

MSVOA_U

ClientSampleId :

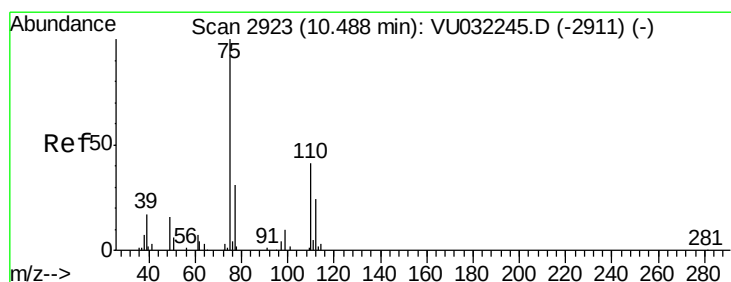
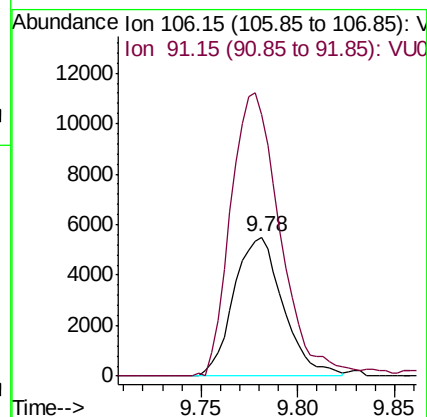
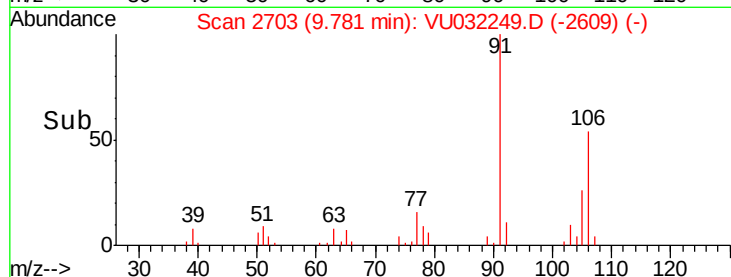
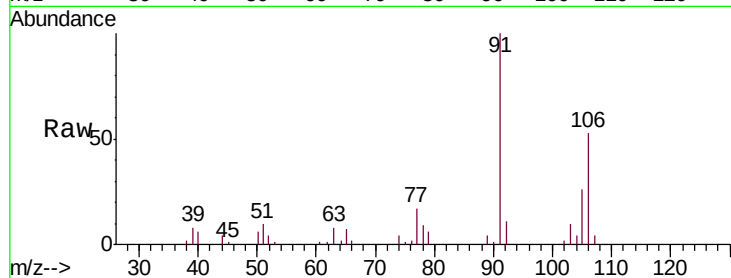
E3YF0

Tgt Ion:106 Resp: 9754

Ion Ratio Lower Upper

106 100

91 188.4 147.8 274.4



#59

1,2,3-Trichloropropane

Concen: 1.987 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. 0.99 min

Lab File: VU032249.D

Acq: 23 May 2019 03:04

Tgt Ion: 75 Resp: 16395

Ion Ratio Lower Upper

75 100

77 0.0 28.2 42.4#

