

Data File : VU032248.D
Acq On : 23 May 2019 02:39
Operator : JC/SP
Sample : K3001-03
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 36 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
E3YF0

Quant Time: May 23 03:47:58 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	381389	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	390614	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	157523	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	116096	5.42	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	108.40%
7) Chloroethane-d5	1.67	69	99663	4.99	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.80%
11) 1,1-Dichloroethene-d2	2.27	63	177057	4.49	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	89.80%
20) 2-Butanone-d5	4.19	46	242418	40.12	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	80.24%
24) Chloroform-d	4.64	84	219327	4.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.20%
26) 1,2-Dichloroethane-d4	5.31	65	105650	3.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	73.00%
32) Benzene-d6	5.33	84	447294	4.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.80%
36) 1,2-Dichloropropane-d6	6.33	67	133995	3.72	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	74.40%
41) Toluene-d8	7.56	98	383080	3.56	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	71.20%
43) trans-1,3-Dichloropropene-	7.85	79	43414	3.14	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	62.80%
46) 2-Hexanone-d5	8.31	63	203996	39.17	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	78.34%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	106775	2.98	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	59.60%#
64) 1,2-Dichlorobenzene-d4	11.86	152	140561	3.24	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	64.80%#

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.30	85	3751	0.230 ug/L	97
3) Chloromethane	1.33	50	4006	0.245 ug/L	90
9) Trichlorofluoromethane	1.88	101	6670	0.312 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	2111	0.156 ug/L #	17
12) 1,1-Dichloroethene	2.28	96	15272	1.125 ug/L #	1
13) Acetone	2.32	43	14033	7.497 ug/L	92
18) trans-1,2-Dichloroethene	2.97	96	4355	0.299 ug/L	93
19) 1,1-Dichloroethane	3.44	63	162484	7.221 ug/L	98
22) cis-1,2-Dichloroethene	4.22	96	22997	1.617 ug/L	88
25) Chloroform	4.67	83	21854	0.899 ug/L	87
29) 1,1,1-Trichloroethane	4.91	97	130478	6.436 ug/L	99
31) Carbon tetrachloride	4.91	117	17233	0.965 ug/L	98
34) Trichloroethene	6.18	95	29109	2.053 ug/L	95
35) Methylcyclohexane	6.33	83	31933	1.529 ug/L #	20
37) 1,2-Dichloropropane	6.33	63	15152	1.191 ug/L #	88
38) Bromodichloromethane	6.76	83	5484	0.332 ug/L #	81
39) cis-1,3-Dichloropropene	7.22	75	2781	0.154 ug/L	86

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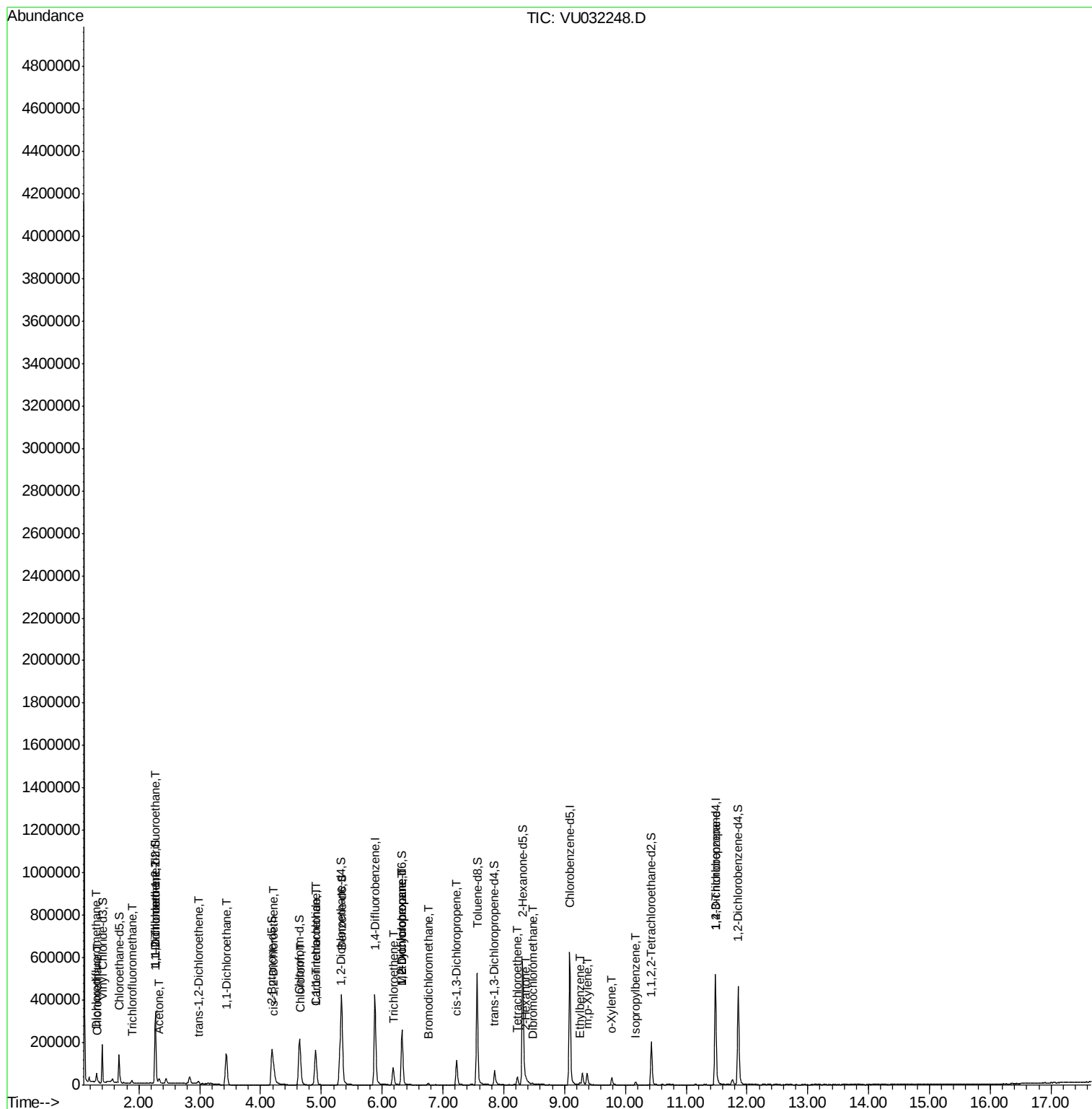
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.22	164	10006	0.855	ug/L	79
48) 2-Hexanone	8.37	43	9855	1.998	ug/L #	94
49) Dibromochloromethane	8.48	129	931	0.083	ug/L	95
52) Ethylbenzene	9.25	91	7740	0.137	ug/L	88
53) m,p-Xylene	9.38	106	15697	0.747	ug/L	79
54) o-Xylene	9.78	106	9167	0.437	ug/L	99
56) Isopropylbenzene	10.16	105	7312	0.138	ug/L	92
59) 1,2,3-Trichloropropane	11.48	75	16245	1.961	ug/L #	87

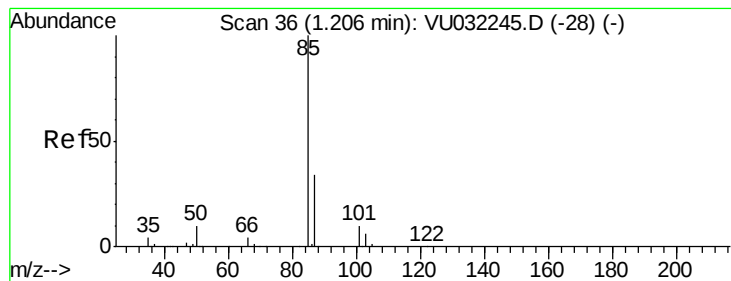
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.230 ug/L

RT: 1.30 min Scan# 66

Delta R.T. 0.10 min

Lab File: VU032248.D

Acq: 23 May 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

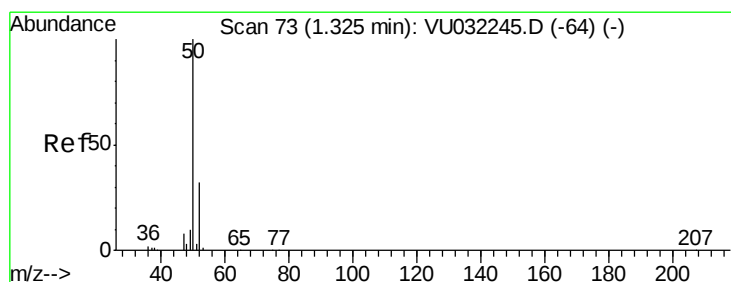
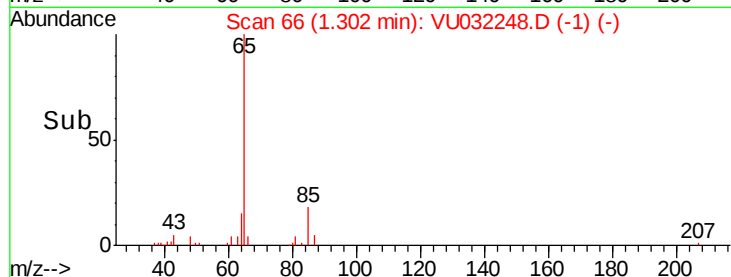
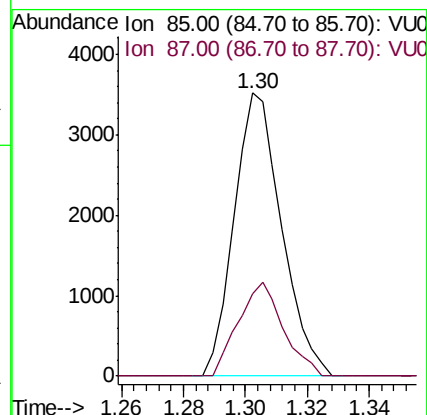
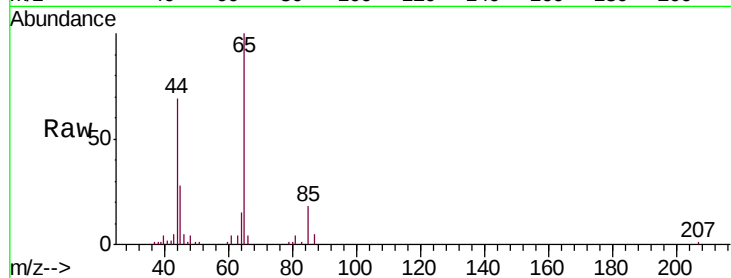
E3YF0

Tgt Ion: 85 Resp: 3751

Ion Ratio Lower Upper

85 100

87 31.5 26.6 39.8



#3

Chloromethane

Concen: 0.245 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU032248.D

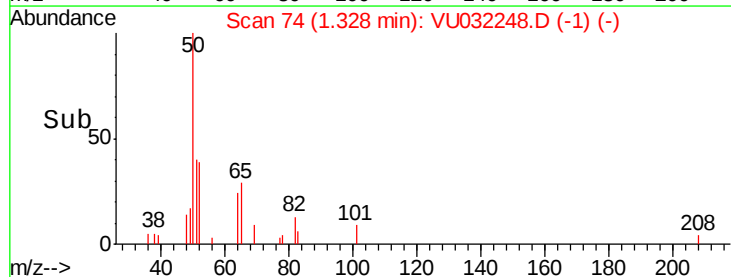
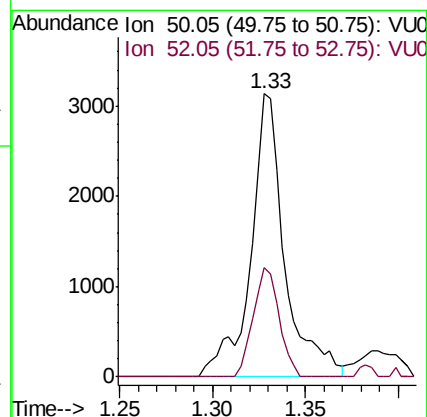
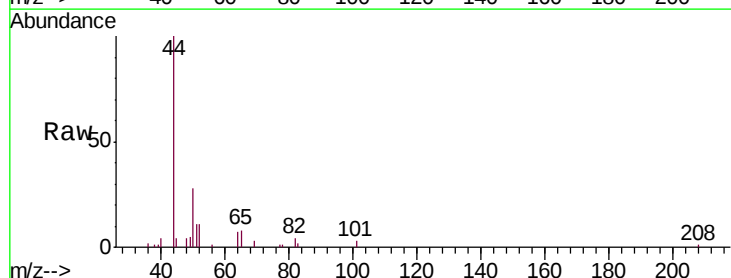
Acq: 23 May 2019 02:39

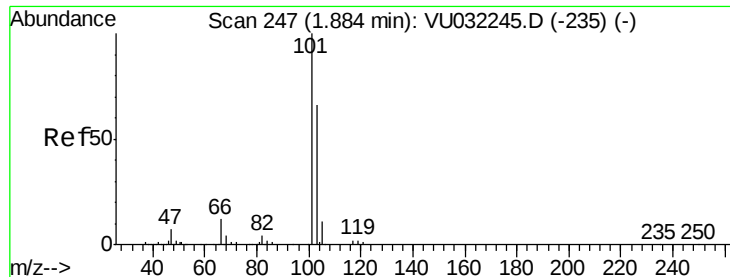
Tgt Ion: 50 Resp: 4006

Ion Ratio Lower Upper

50 100

52 38.8 23.3 43.3





#9

Trichlorofluoromethane

Concen: 0.312 ug/L

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU032248.D

Acq: 23 May 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

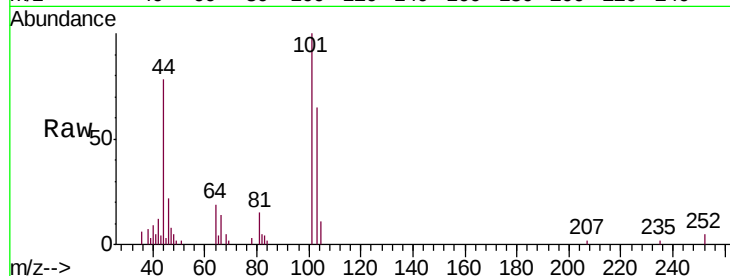
E3YF0

Tgt Ion:101 Resp: 6670

Ion Ratio Lower Upper

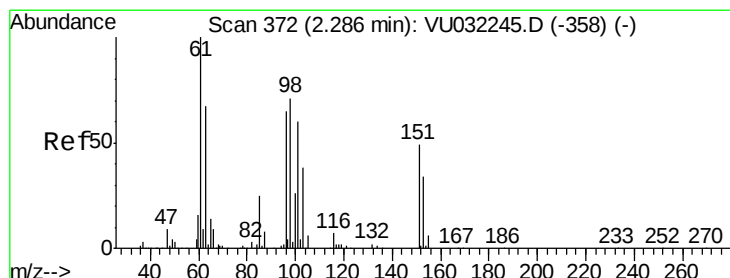
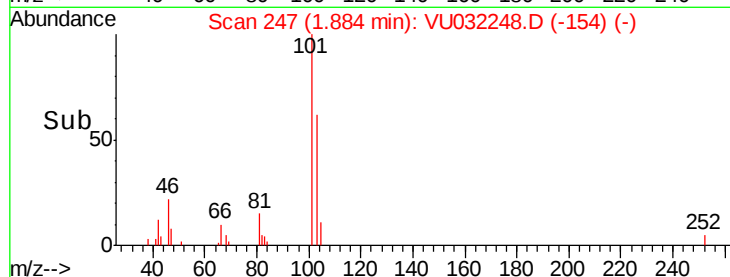
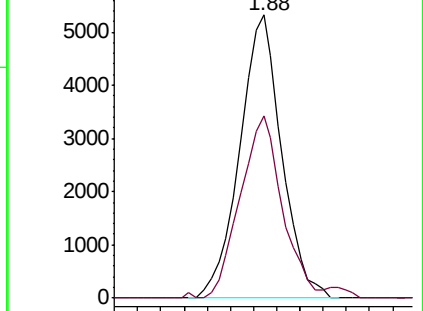
101 100

103 64.9 51.9 77.9



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: 0.156 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.02 min

Lab File: VU032248.D

Acq: 23 May 2019 02:39

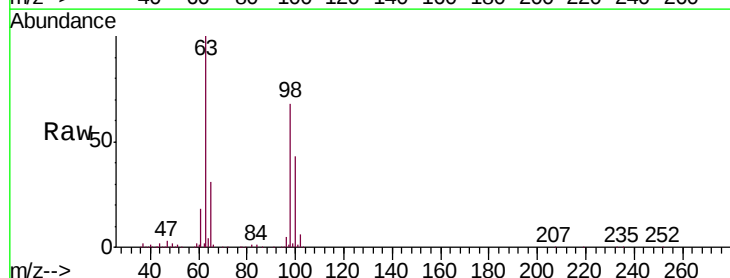
Tgt Ion:101 Resp: 2111

Ion Ratio Lower Upper

101 100

85 0.0 34.2 51.4#

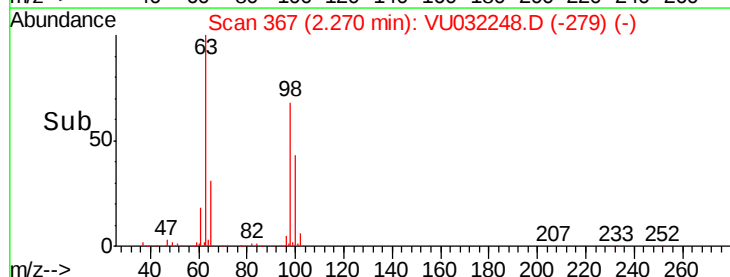
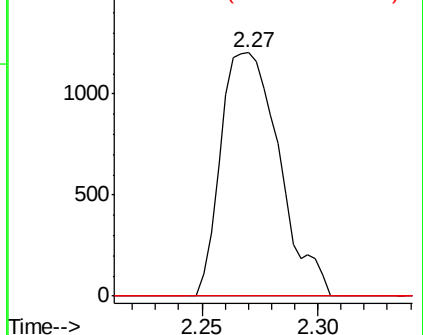
151 0.0 64.4 96.6#

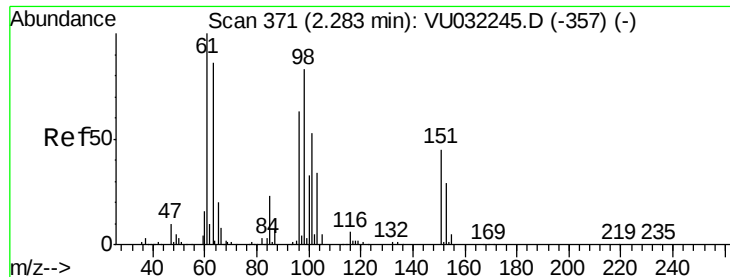


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V





#12

1,1-Dichloroethene

Concen: 1.125 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU032248.D

Acq: 23 May 2019 02:39

Instrument :
MSVOA_U
ClientSampleId :
E3YF0

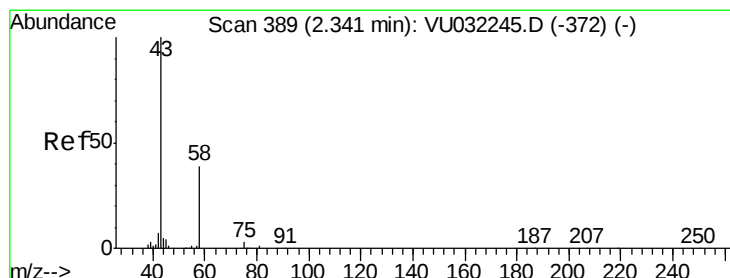
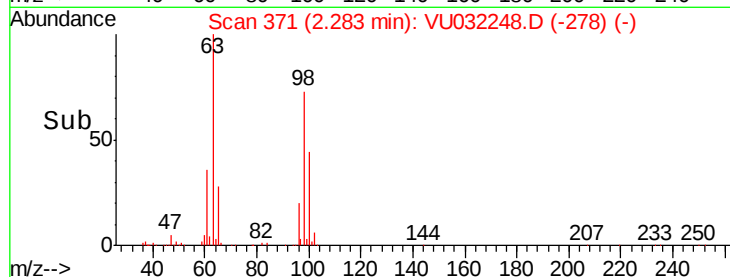
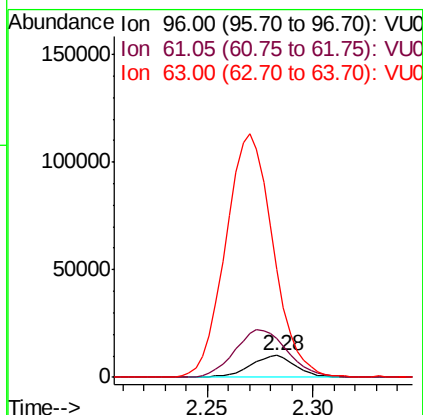
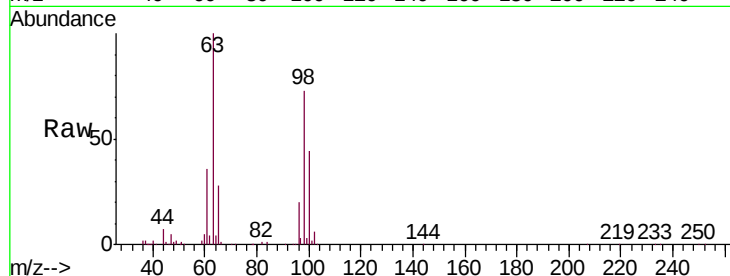
Tgt Ion: 96 Resp: 15272

Ion Ratio Lower Upper

96 100

61 179.4 113.8 211.3

63 491.8 108.8 202.2#



#13

Acetone

Concen: 7.497 ug/L

RT: 2.32 min Scan# 383

Delta R.T. -0.02 min

Lab File: VU032248.D

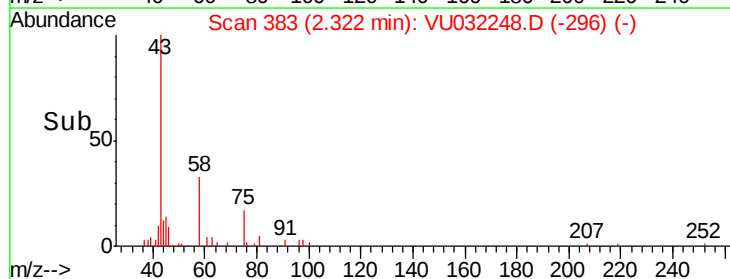
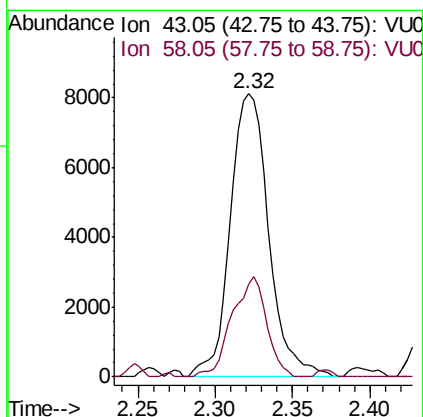
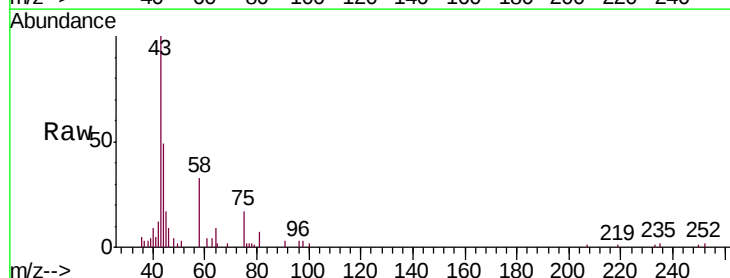
Acq: 23 May 2019 02:39

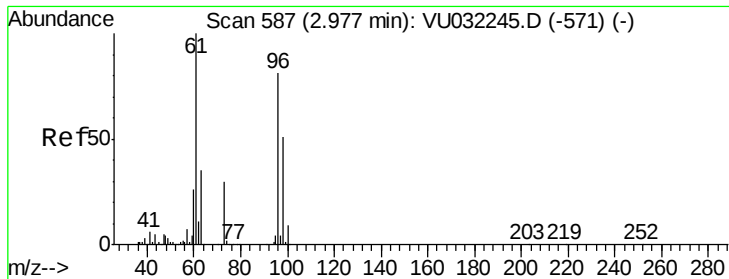
Tgt Ion: 43 Resp: 14033

Ion Ratio Lower Upper

43 100

58 31.7 0.0 72.6

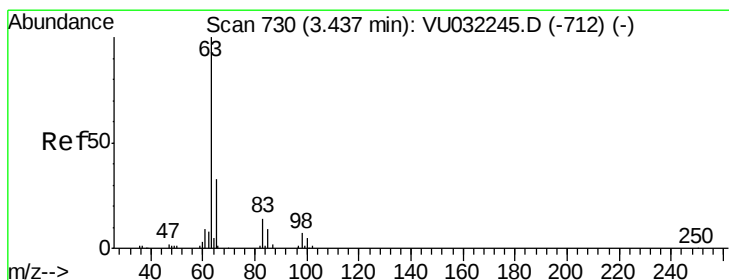
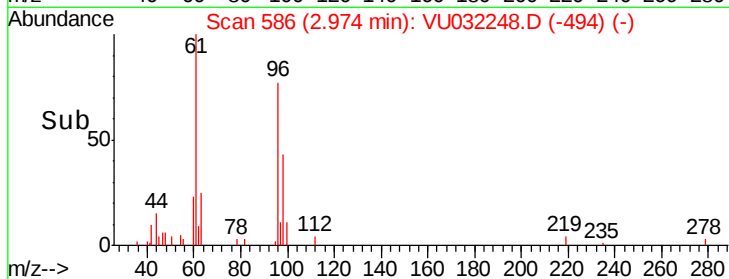
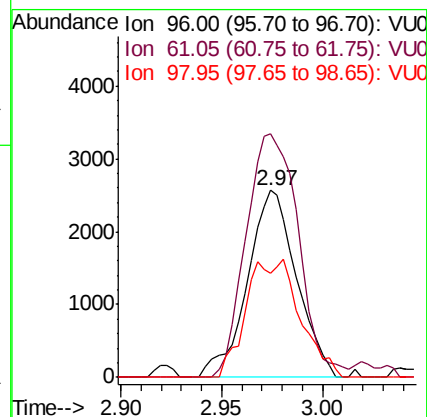
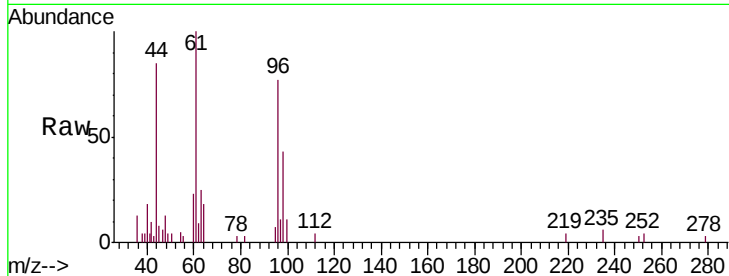




#18
trans-1,2-Dichloroethene
Concen: 0.299 ug/L
RT: 2.97 min Scan# 586
Delta R.T. -0.00 min
Lab File: VU032248.D
Acq: 23 May 2019 02:39

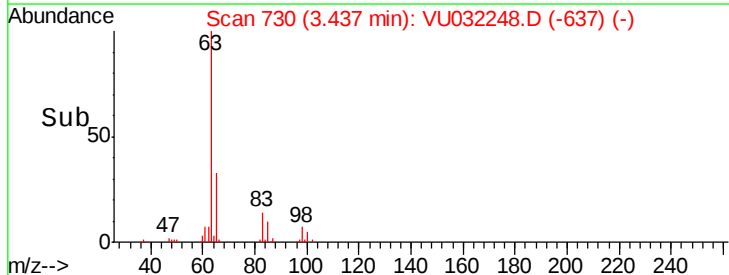
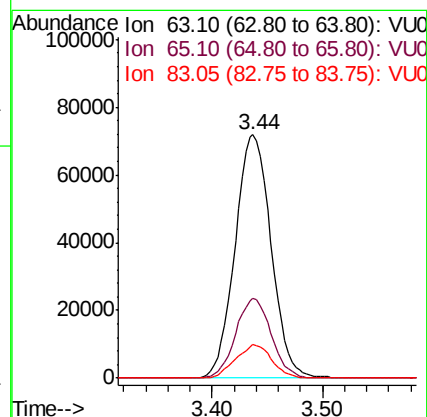
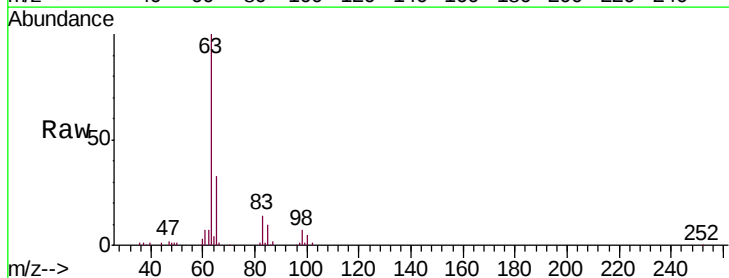
Instrument :
MSVOA_U
ClientSampleId :
E3YF0

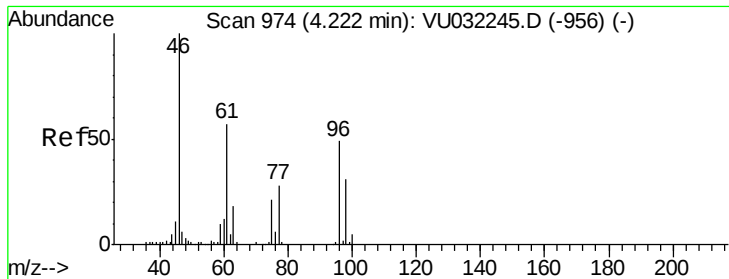
Tgt Ion: 96 Resp: 4355
Ion Ratio Lower Upper
96 100
61 130.4 90.6 168.3
98 55.9 49.5 91.9



#19
1,1-Dichloroethane
Concen: 7.221 ug/L
RT: 3.44 min Scan# 730
Delta R.T. 0.00 min
Lab File: VU032248.D
Acq: 23 May 2019 02:39

Tgt Ion: 63 Resp: 162484
Ion Ratio Lower Upper
63 100
65 33.0 23.5 43.7
83 13.6 8.8 16.3



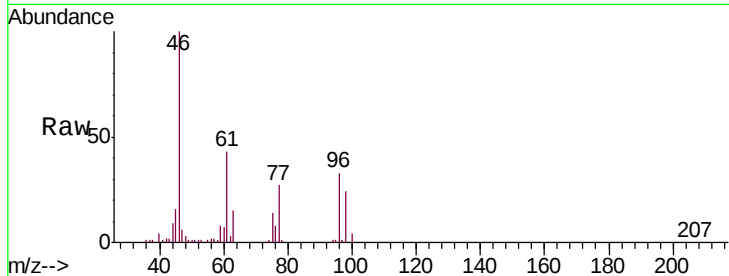


#22

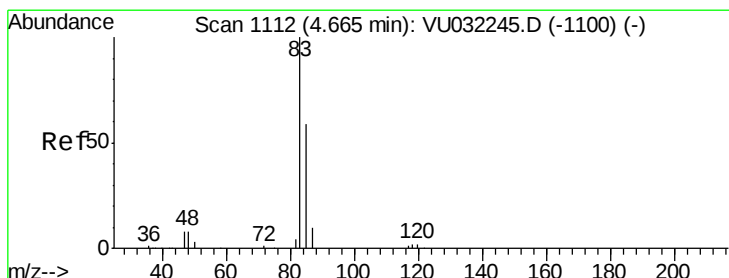
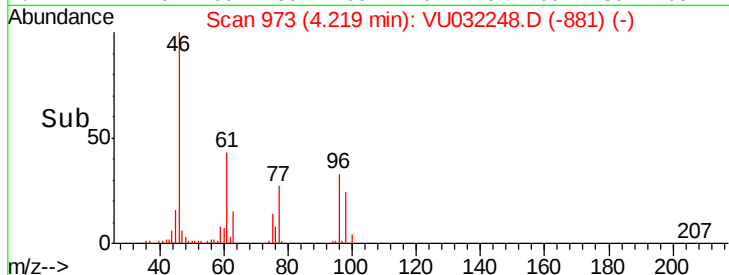
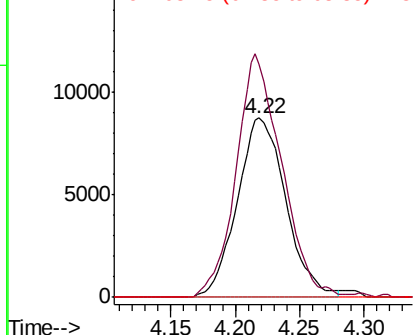
cis-1,2-Dichloroethene
 Concen: 1.617 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU032248.D
 Acq: 23 May 2019 02:39

Instrument :
 MSVOA_U
 ClientSampleId :
 E3YF0

Tgt Ion: 96 Resp: 22997
 Ion Ratio Lower Upper
 96 100
 61 130.5 82.5 153.1
 68 0.0 0.0 0.0



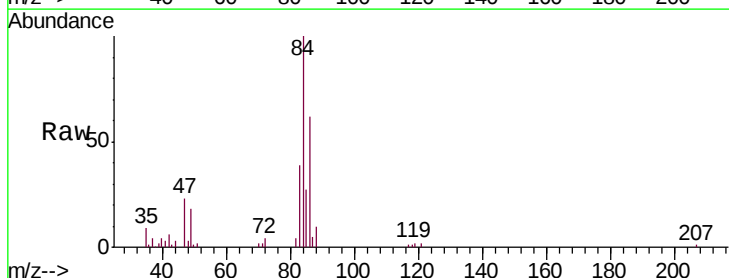
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



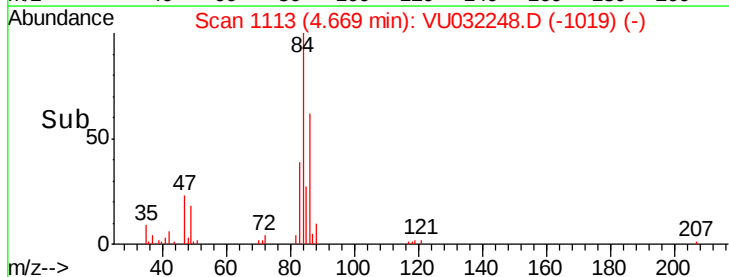
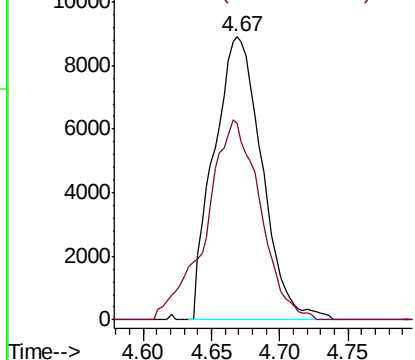
#25

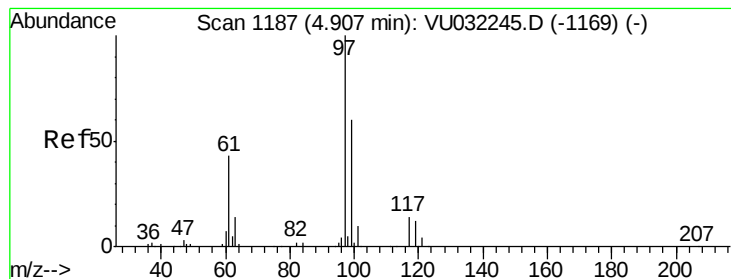
Chloroform
 Concen: 0.899 ug/L
 RT: 4.67 min Scan# 1113
 Delta R.T. 0.00 min
 Lab File: VU032248.D
 Acq: 23 May 2019 02:39

Tgt Ion: 83 Resp: 21854
 Ion Ratio Lower Upper
 83 100
 85 69.4 41.6 77.3



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





#29

1,1,1-Trichloroethane

Concen: 6.436 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. 0.00 min

Lab File: VU032248.D

Acq: 23 May 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

E3YF0

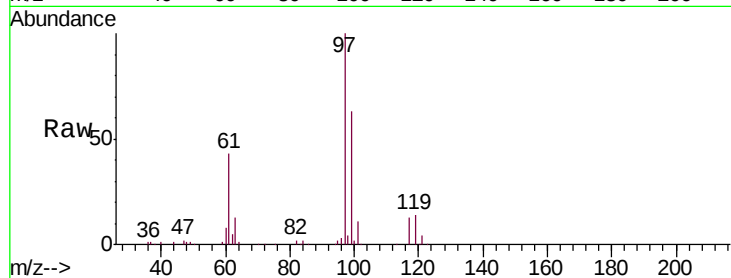
Tgt Ion: 97 Resp: 130478

Ion Ratio Lower Upper

97 100

99 62.9 50.3 75.5

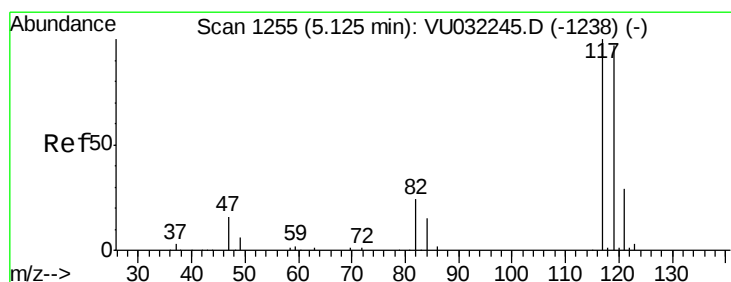
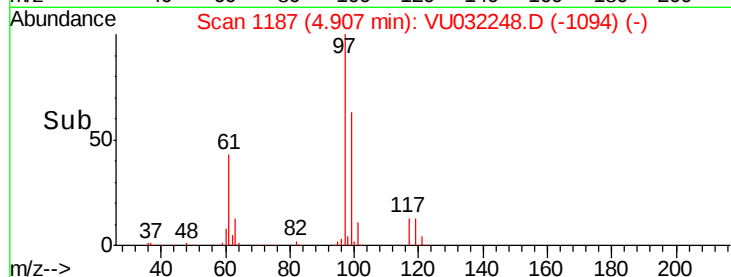
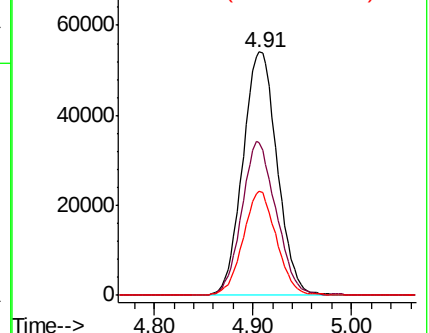
61 41.5 34.1 51.1



Abundance Ion 96.95 (96.65 to 97.65): VU032248.D (-1169) (-)

Ion 99.05 (98.75 to 99.75): VU032248.D (-1169) (-)

Ion 61.05 (60.75 to 61.75): VU032248.D (-1169) (-)



#31

Carbon tetrachloride

Concen: 0.965 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. -0.22 min

Lab File: VU032248.D

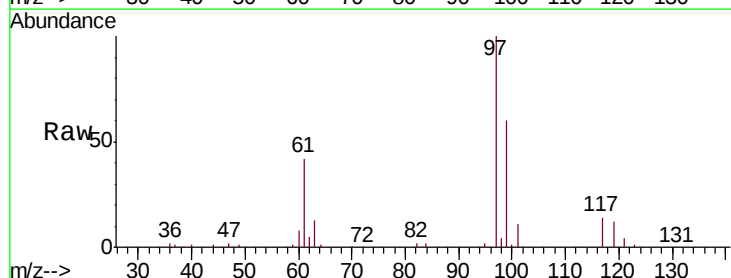
Acq: 23 May 2019 02:39

Tgt Ion: 117 Resp: 17233

Ion Ratio Lower Upper

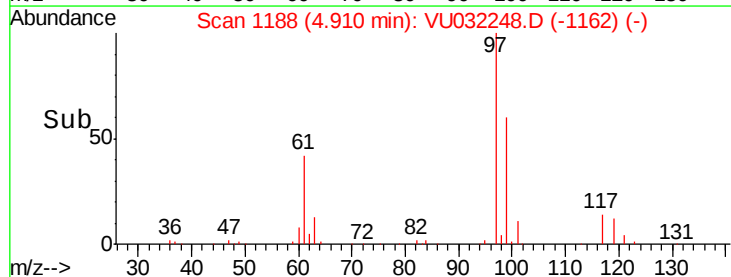
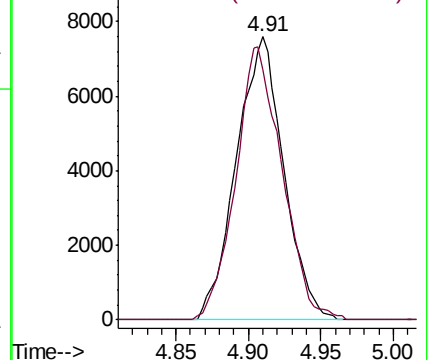
117 100

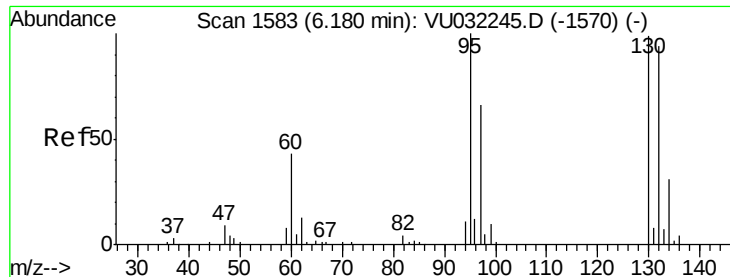
119 94.6 76.9 115.3



Abundance Ion 116.90 (116.60 to 117.60): VU032248.D (-1162) (-)

Ion 118.90 (118.60 to 119.60): VU032248.D (-1162) (-)





#34

Trichloroethene

Concen: 2.053 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032248.D

Acq: 23 May 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

E3YF0

Tgt Ion: 95 Resp: 29109

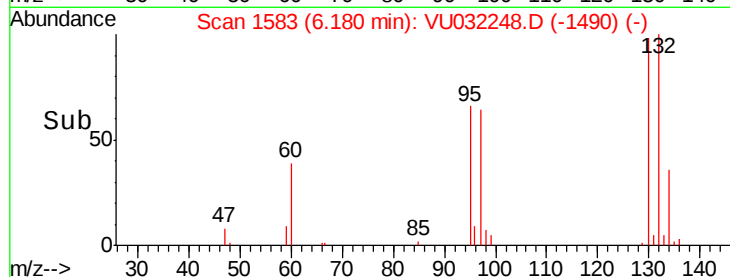
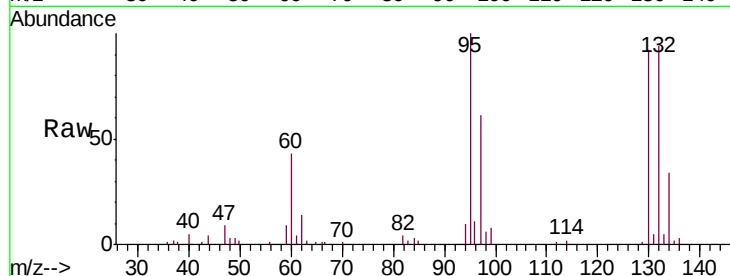
Ion Ratio Lower Upper

95 100

97 60.8 39.9 74.1

132 94.3 65.9 122.5

130 92.4 70.6 131.2

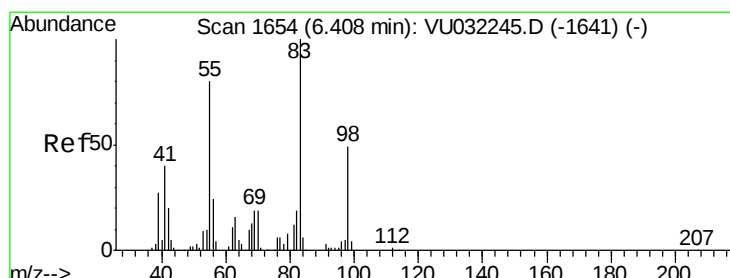
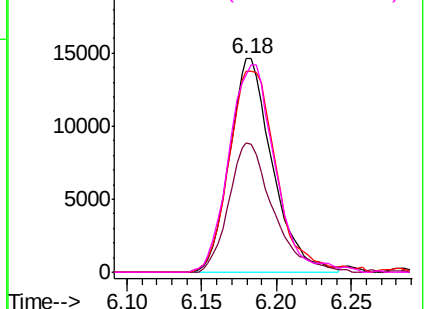


Abundance Ion 95.00 (94.70 to 95.70): VU032248.D (-1490) (-)

Ion 96.95 (96.65 to 97.65): VU032248.D (-1490) (-)

Ion 131.95 (131.65 to 132.65): VU032248.D (-1490) (-)

Ion 129.95 (129.65 to 130.65): VU032248.D (-1490) (-)



#35

Methylcyclohexane

Concen: 1.529 ug/L

RT: 6.33 min Scan# 1629

Delta R.T. -0.08 min

Lab File: VU032248.D

Acq: 23 May 2019 02:39

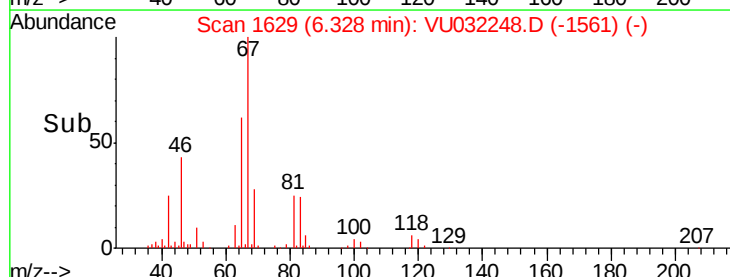
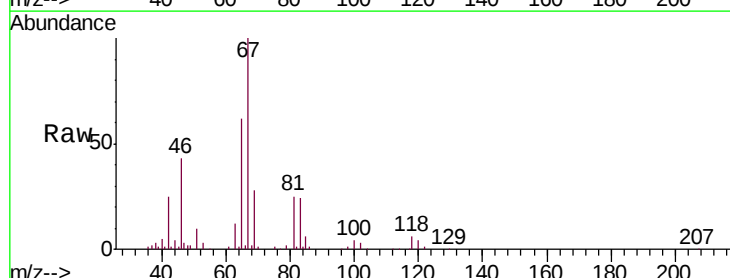
Tgt Ion: 83 Resp: 31933

Ion Ratio Lower Upper

83 100

55 0.2 59.7 89.5#

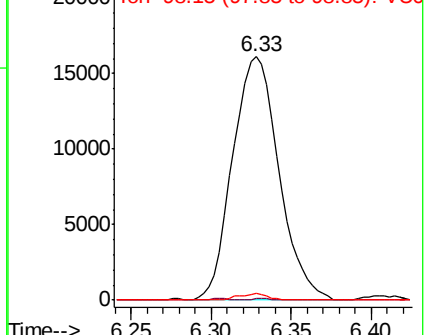
98 1.6 37.5 56.3#

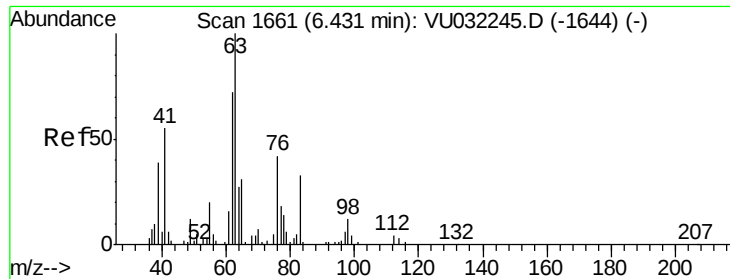


Abundance Ion 83.15 (82.85 to 83.85): VU032248.D (-1561) (-)

Ion 55.10 (54.80 to 55.80): VU032248.D (-1561) (-)

Ion 98.15 (97.85 to 98.85): VU032248.D (-1561) (-)

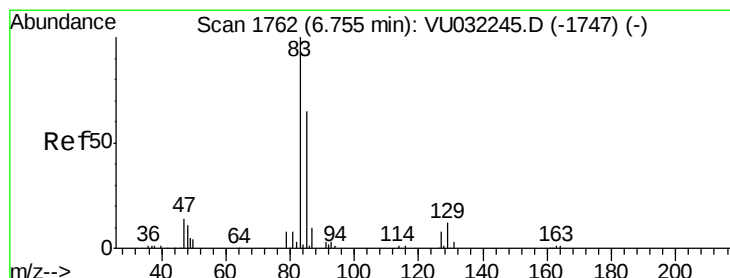
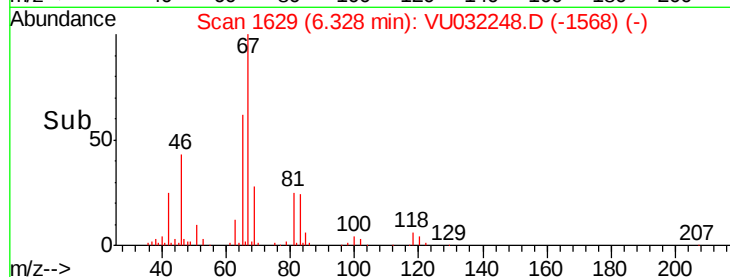
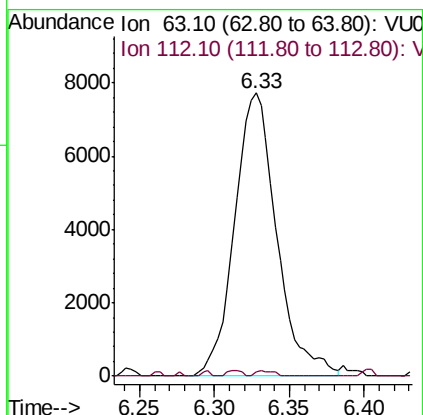
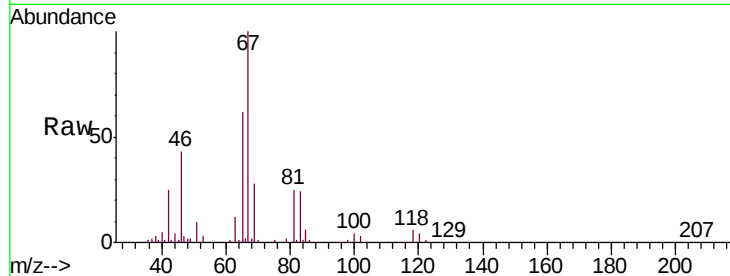




#37
 1,2-Dichloropropane
 Concen: 1.191 ug/L
 RT: 6.33 min Scan# 1629
 Delta R.T. -0.10 min
 Lab File: VU032248.D
 Acq: 23 May 2019 02:39

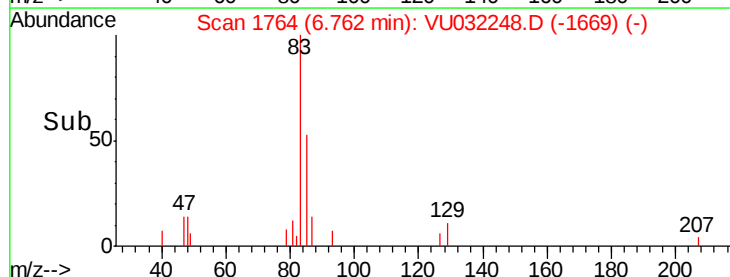
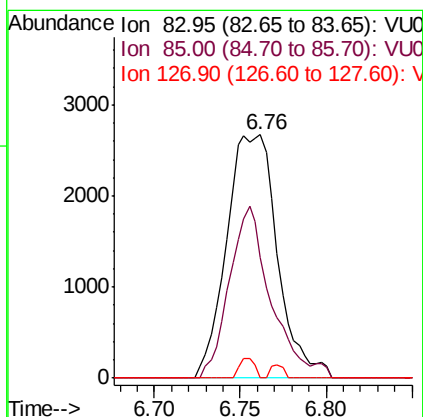
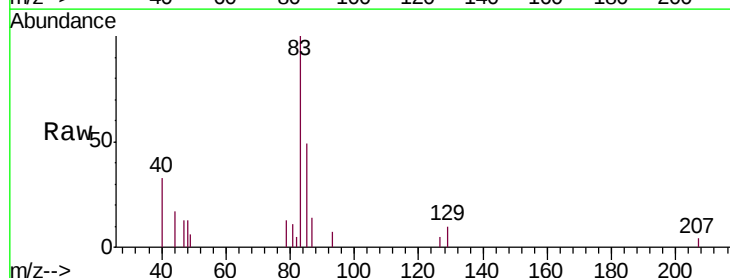
Instrument :
 MSVOA_U
 ClientSampleId :
 E3YF0

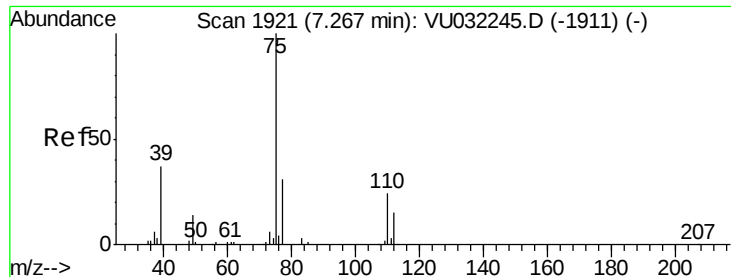
Tgt Ion: 63 Resp: 15152
 Ion Ratio Lower Upper
 63 100
 112 0.8 3.8 5.8#



#38
 Bromodichloromethane
 Concen: 0.332 ug/L
 RT: 6.76 min Scan# 1764
 Delta R.T. 0.01 min
 Lab File: VU032248.D
 Acq: 23 May 2019 02:39

Tgt Ion: 83 Resp: 5484
 Ion Ratio Lower Upper
 83 100
 85 49.5 44.4 82.4
 127 0.0 7.0 10.6#

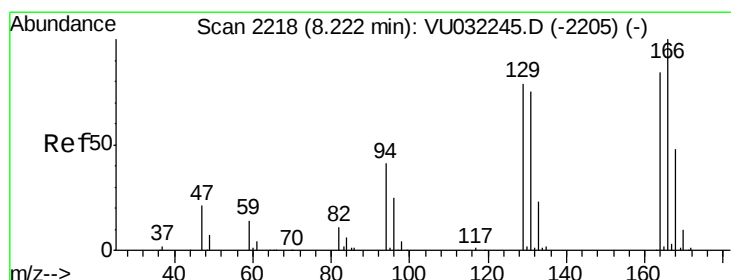
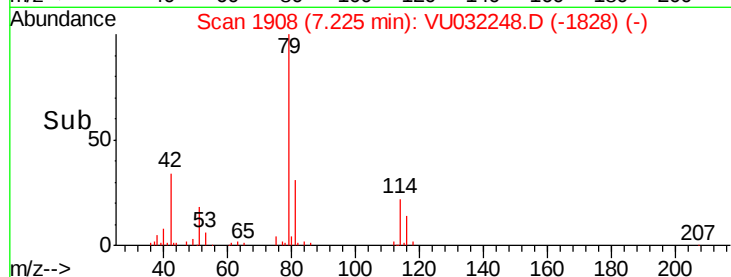
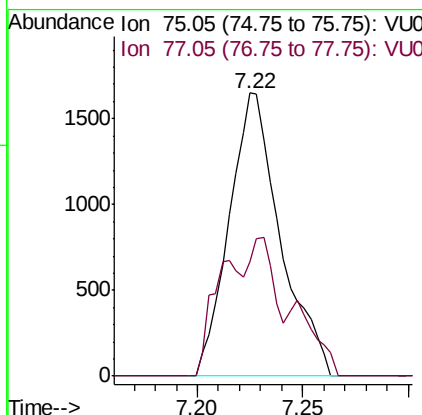
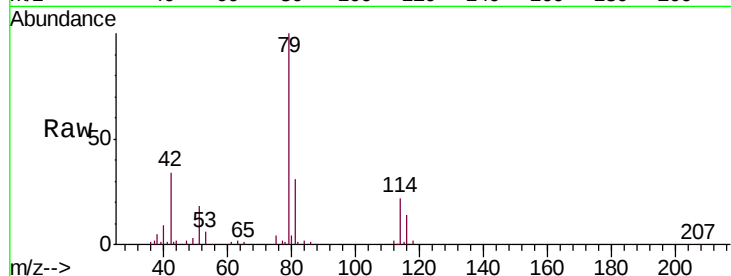




#39
 cis-1,3-Dichloropropene
 Concen: 0.154 ug/L
 RT: 7.22 min Scan# 1908
 Delta R.T. -0.04 min
 Lab File: VU032248.D
 Acq: 23 May 2019 02:39

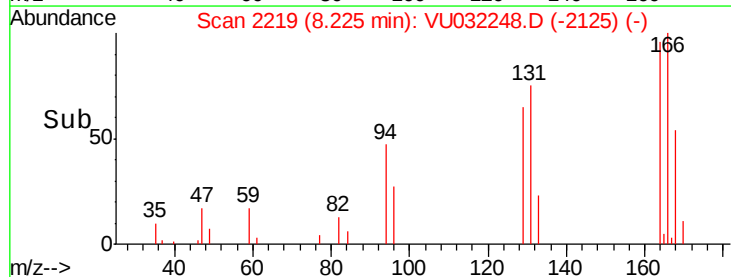
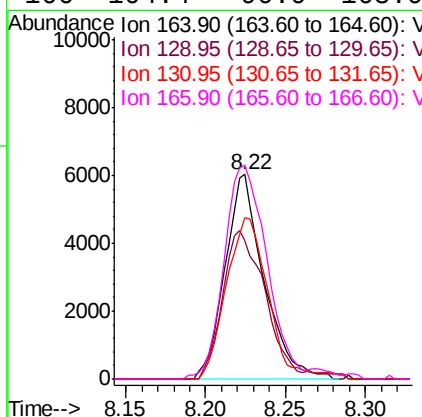
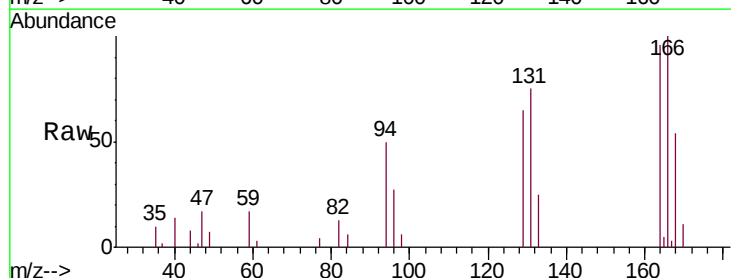
Instrument :
 MSVOA_U
 ClientSampleId :
 E3YF0

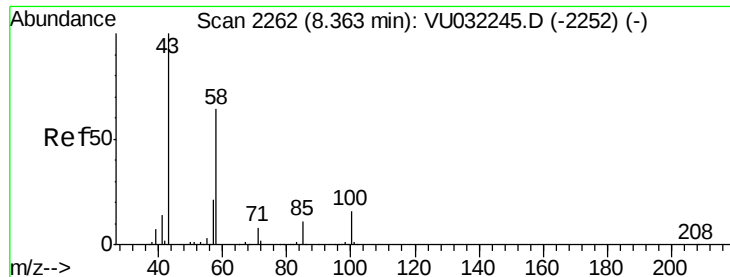
Tgt Ion: 75 Resp: 2781
 Ion Ratio Lower Upper
 75 100
 77 40.3 22.6 42.0



#47
 Tetrachloroethene
 Concen: 0.855 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU032248.D
 Acq: 23 May 2019 02:39

Tgt Ion: 164 Resp: 10006
 Ion Ratio Lower Upper
 164 100
 129 67.7 67.1 124.7
 131 78.7 62.2 115.4
 166 104.4 90.9 168.9

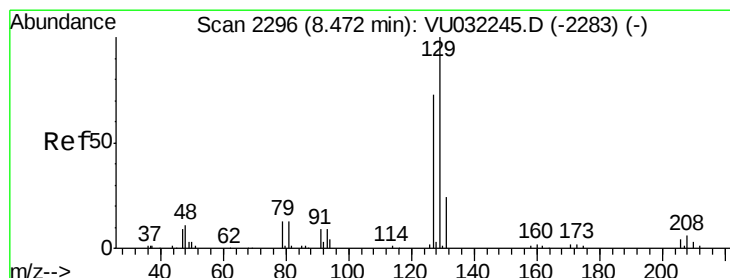
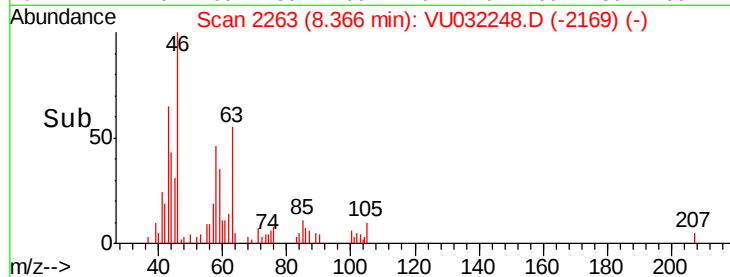
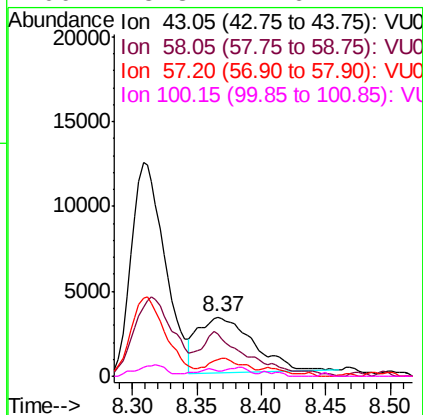
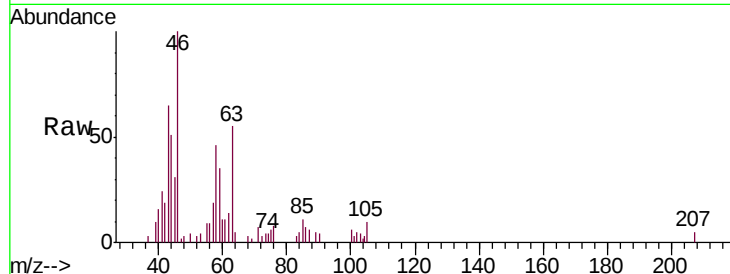




#48
2-Hexanone
Concen: 1.998 ug/L
RT: 8.37 min Scan# 2263
Delta R.T. 0.00 min
Lab File: VU032248.D
Acq: 23 May 2019 02:39

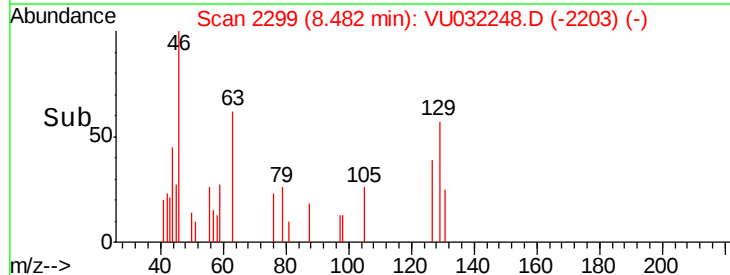
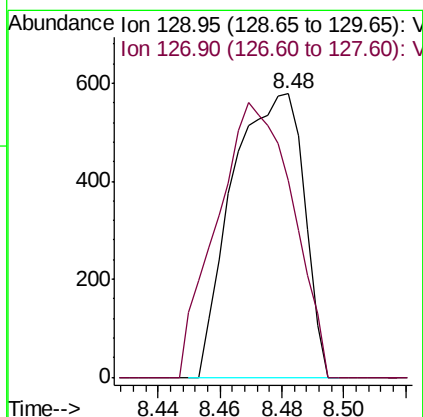
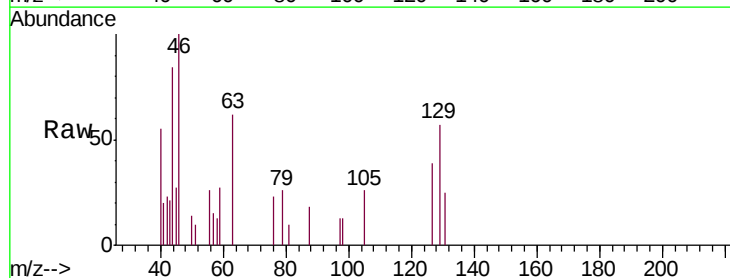
Instrument :
MSVOA_U
ClientSampleId :
E3YF0

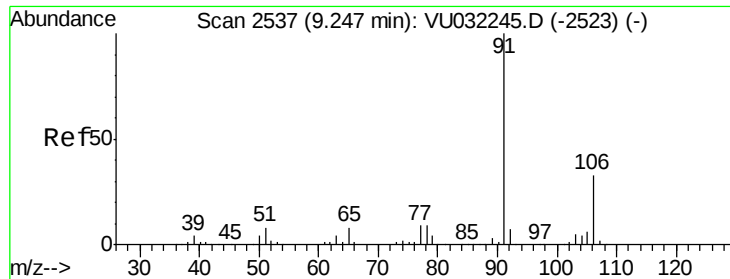
Tgt Ion: 43 Resp: 9855
Ion Ratio Lower Upper
43 100
58 63.3 49.7 74.5
57 18.6 17.1 25.7
100 5.3 11.6 17.4#



#49
Dibromochloromethane
Concen: 0.083 ug/L
RT: 8.48 min Scan# 2299
Delta R.T. 0.01 min
Lab File: VU032248.D
Acq: 23 May 2019 02:39

Tgt Ion: 129 Resp: 931
Ion Ratio Lower Upper
129 100
127 69.4 51.7 95.9





#52

Ethylbenzene

Concen: 0.137 ug/L

RT: 9.25 min Scan# 2538

Delta R.T. 0.00 min

Lab File: VU032248.D

Acq: 23 May 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

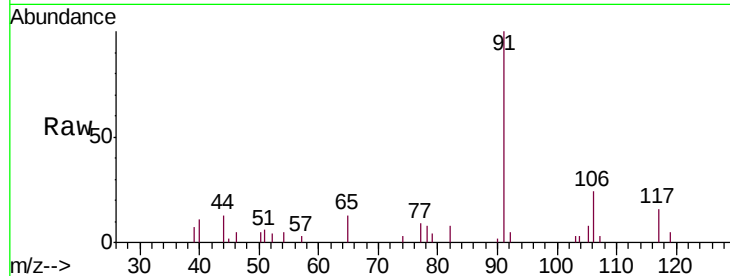
E3YF0

Tgt Ion: 91 Resp: 7740

Ion Ratio Lower Upper

91 100

106 23.5 20.9 38.9



Abundance Ion 91.15 (90.85 to 91.85): VU032245.D (-2523) (-)

Ion 106.15 (105.85 to 106.85): VU032245.D (-2523) (-)

9.25

5000

4000

3000

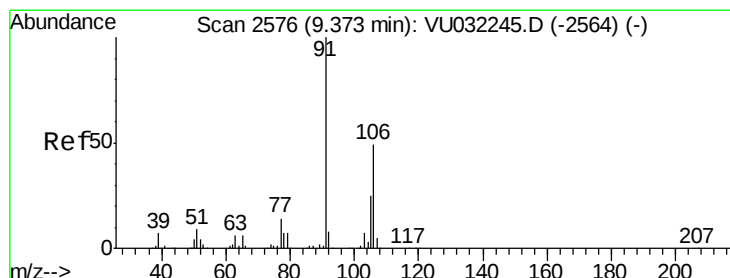
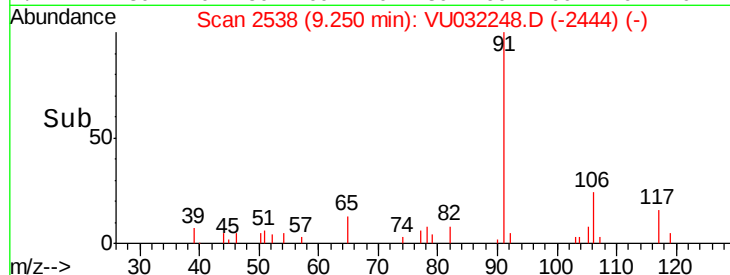
2000

1000

0

9.20 9.25 9.30

Time-->



#53

m,p-Xylene

Concen: 0.747 ug/L

RT: 9.38 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VU032248.D

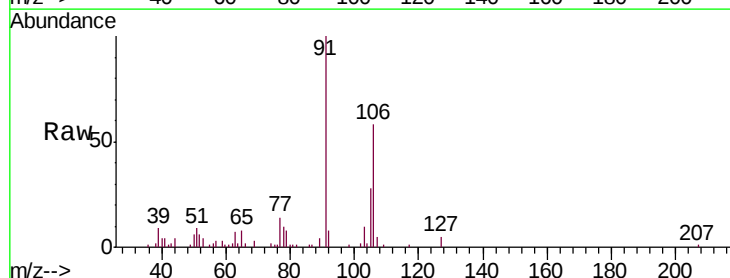
Acq: 23 May 2019 02:39

Tgt Ion: 106 Resp: 15697

Ion Ratio Lower Upper

106 100

91 173.3 143.9 267.2



Abundance Ion 106.15 (105.85 to 106.85): VU032245.D (-2564) (-)

Ion 91.15 (90.85 to 91.85): VU032245.D (-2564) (-)

9.38

15000

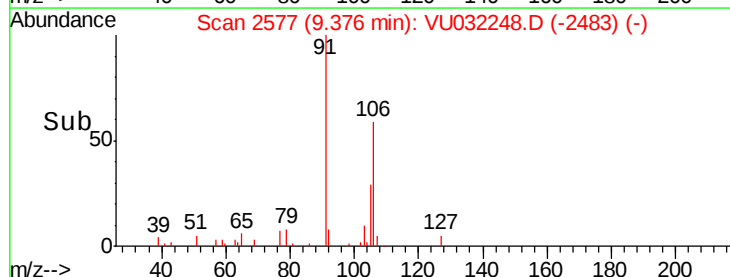
10000

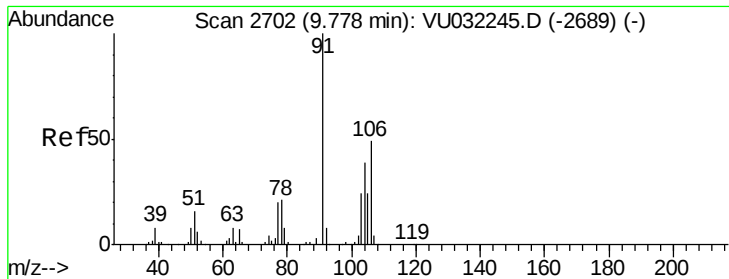
5000

0

9.30 9.35 9.40 9.45

Time-->





#54

o-Xylene

Concen: 0.437 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU032248.D

Acq: 23 May 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

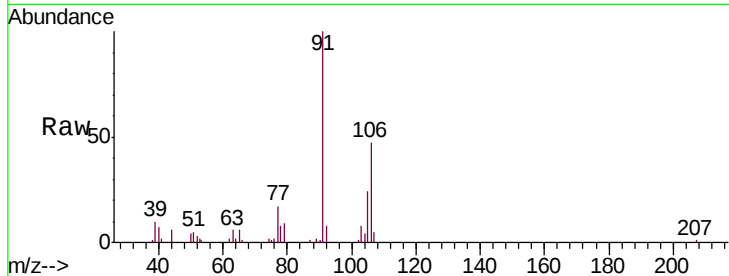
E3YF0

Tgt Ion:106 Resp: 9167

Ion Ratio Lower Upper

106 100

91 212.1 147.8 274.4



Abundance Ion 106.15 (105.85 to 106.85): V

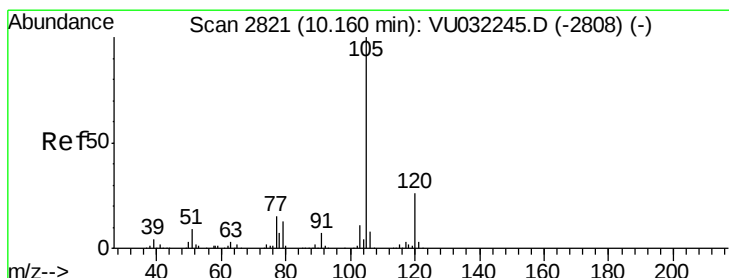
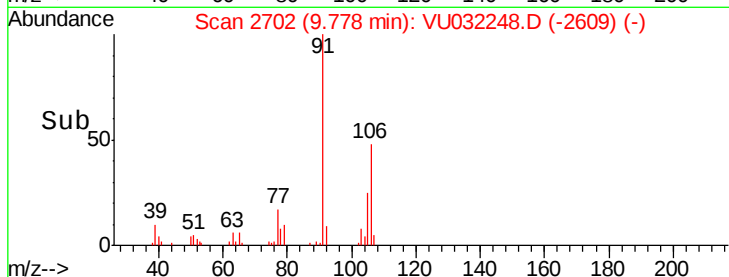
Ion 91.15 (90.85 to 91.85): VU0

10000

5000

9.78

Time-->



#56

Isopropylbenzene

Concen: 0.138 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU032248.D

Acq: 23 May 2019 02:39

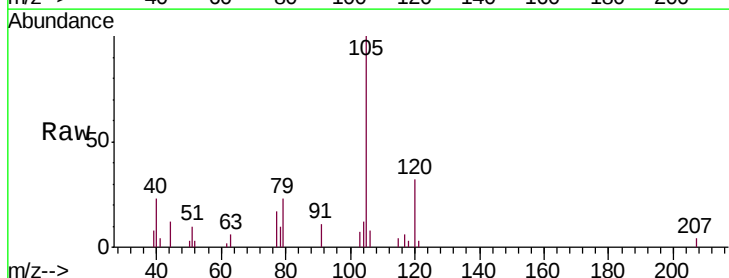
Tgt Ion:105 Resp: 7312

Ion Ratio Lower Upper

105 100

120 30.9 21.0 31.6

77 17.4 11.9 17.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

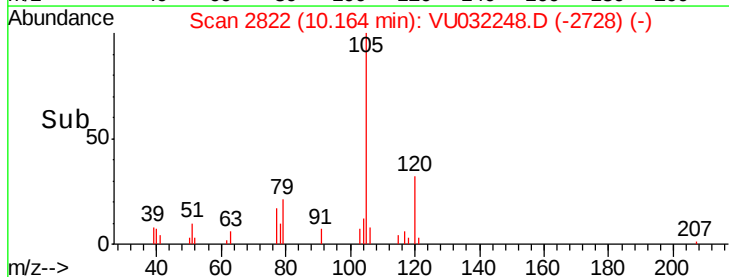
Ion 77.10 (76.80 to 77.80): VU0

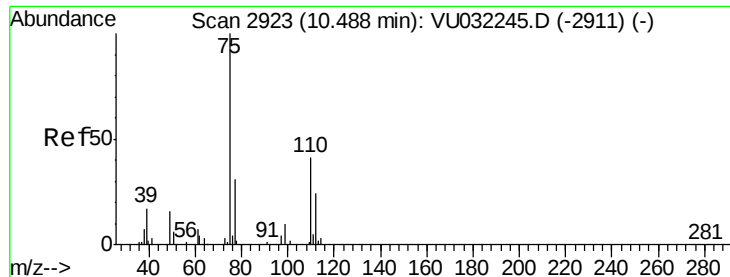
6000

5000

10.16

Time-->





#59

1,2,3-Trichloropropane

Concen: 1.961 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. 0.99 min

Lab File: VU032248.D

Acq: 23 May 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

E3YF0

Tgt Ion: 75 Resp: 16245

Ion Ratio Lower Upper

75 100

77 42.7 28.2 42.4#

