

Data File : VU032044.D
Acq On : 16 May 2019 13:04
Operator : JC/SP
Sample : VSTD00508
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00508

Quant Time: May 17 02:17:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR051619WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 17 02:13:58 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	432008	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	438328	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	193792	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	180509	4.46	ug/L	0.00
7) Chloroethane-d5	1.68	69	153506	4.75	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	296149	4.72	ug/L	0.00
20) 2-Butanone-d5	4.20	46	373324	42.98	ug/L	0.00
24) Chloroform-d	4.64	84	320711	4.93	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	162796	4.87	ug/L	0.00
32) Benzene-d6	5.33	84	673725	4.78	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	194365	4.48	ug/L	0.00
41) Toluene-d8	7.56	98	605646	4.95	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	70833	4.80	ug/L	0.00
46) 2-Hexanone-d5	8.31	63	339017	48.04	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	160047	4.78	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	211129	4.97	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	112029	5.230	ug/L 100
3) Chloromethane	1.32	50	98362	4.046	ug/L 100
5) Vinyl chloride	1.40	62	107453	4.526	ug/L 100
6) Bromomethane	1.63	94	61902	4.904	ug/L 100
8) Chloroethane	1.70	64	64136	4.107	ug/L 100
9) Trichlorofluoromethane	1.88	101	134959	5.169	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	87430	5.111	ug/L 100
12) 1,1-Dichloroethene	2.28	96	85958	5.071	ug/L 100
13) Acetone	2.34	43	114166	41.870	ug/L 100
14) Carbon disulfide	2.47	76	273158	4.706	ug/L 100
15) Methyl Acetate	2.62	43	30649	3.856	ug/L 100
16) Methylene chloride	2.69	84	96235	4.826	ug/L 100
17) Methyl tert-butyl Ether	3.00	73	201281	4.856	ug/L 100
18) trans-1,2-Dichloroethene	2.97	96	93635	5.016	ug/L 100
19) 1,1-Dichloroethane	3.44	63	148364	4.695	ug/L 100
21) 2-Butanone	4.29	43	176943	42.473	ug/L 100
22) cis-1,2-Dichloroethene	4.22	96	91988	4.944	ug/L 100
23) Bromochloromethane	4.55	128	38558	4.816	ug/L 100
25) Chloroform	4.67	83	158287	4.887	ug/L 100
27) 1,2-Dichloroethane	5.40	62	92390	4.917	ug/L 100
29) 1,1,1-Trichloroethane	4.91	97	124381	4.972	ug/L 100
30) Cyclohexane	4.98	56	116363	4.270	ug/L 100
31) Carbon tetrachloride	5.13	117	107054	5.034	ug/L 100
33) Benzene	5.38	78	340683	4.738	ug/L 100
34) Trichloroethene	6.18	95	92980	4.865	ug/L 100
35) Methylcyclohexane	6.41	83	130766	4.862	ug/L 100
37) 1,2-Dichloropropane	6.43	63	79924	4.433	ug/L 100
38) Bromodichloromethane	6.76	83	104982	4.813	ug/L 100
39) cis-1,3-Dichloropropene	7.27	75	116616	4.975	ug/L 100
40) 4-Methyl-2-pentanone	7.46	43	392138	41.153	ug/L 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	368324	5.010	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	91002	4.940	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	61088	4.831	ug/L	100
47) Tetrachloroethene	8.22	164	68145	5.048	ug/L	100
48) 2-Hexanone	8.36	43	309975	43.077	ug/L	100
49) Dibromochloromethane	8.47	129	69059	5.016	ug/L	100
50) 1,2-Dibromoethane	8.58	107	58929	5.078	ug/L	100
51) Chlorobenzene	9.12	112	222238	4.923	ug/L	100
52) Ethylbenzene	9.25	91	363161	4.921	ug/L	100
53) m,p-Xylene	9.37	106	135096	4.957	ug/L	100
54) o-Xylene	9.77	106	134047	5.055	ug/L	100
55) Styrene	9.79	104	232004	5.380	ug/L	100
56) Isopropylbenzene	10.16	105	347119	5.152	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	76225	4.891	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	52161	4.758	ug/L	100
61) Bromoform	9.96	173	39224	5.311	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	160463	5.026	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	163797	5.032	ug/L	100
65) 1,2-Dichlorobenzene	11.87	146	162767	5.147	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.66	75	10935	4.965	ug/L	100
67) 1,3,5-Trichlorobenzene	12.88	180	120901	5.233	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	86664	5.463	ug/L	100
69) Naphthalene	13.74	128	126847	4.758	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	86531	5.342	ug/L	100

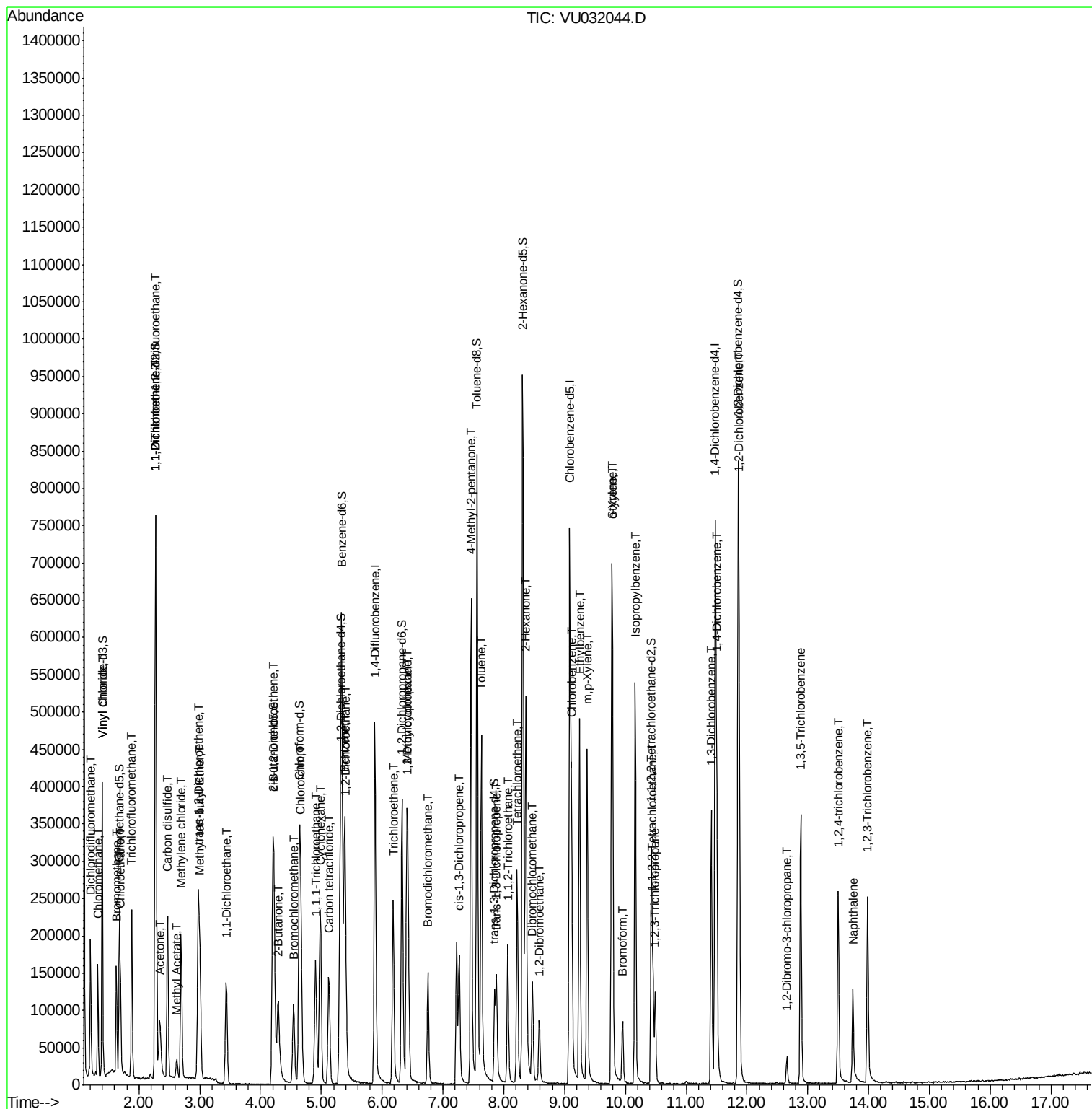
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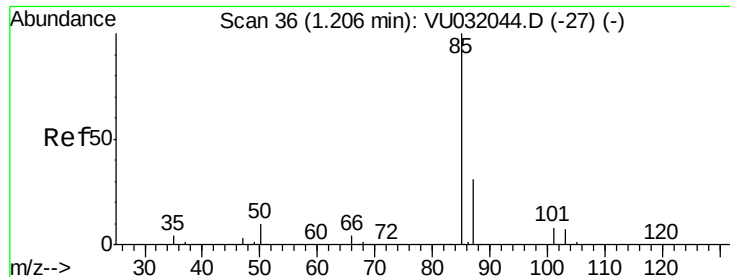
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#2

Dichlorodifluoromethane

Concen: 5.230 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU032044.D

Acq: 16 May 2019 13:04

Instrument :

MSVOA_U

ClientSampleId :

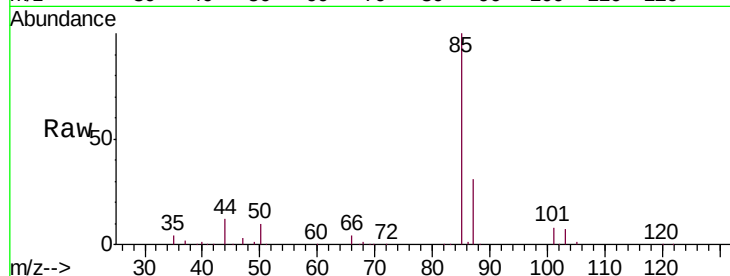
VSTD00508

Tgt Ion: 85 Resp: 112029

Ion Ratio Lower Upper

85 100

87 31.0 24.8 37.2



Abundance Ion 85.00 (84.70 to 85.70): VU032044.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU032044.D (-27) (-)

120000

100000

80000

60000

40000

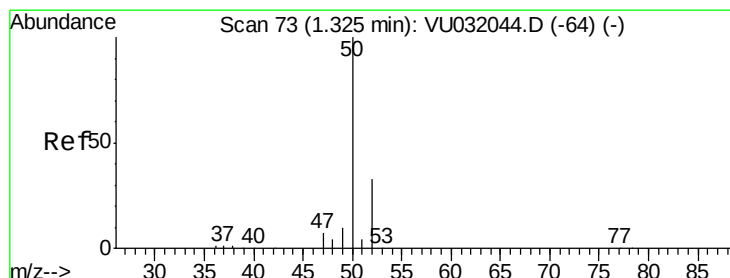
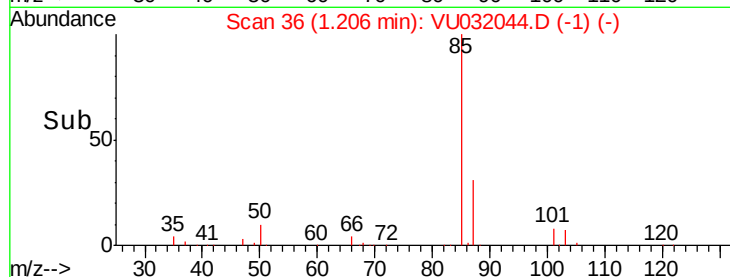
20000

0

1.21

1.15 1.20 1.25 1.30

Time-->



#3

Chloromethane

Concen: 4.046 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU032044.D

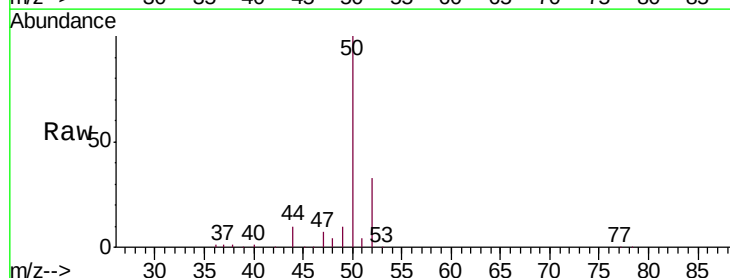
Acq: 16 May 2019 13:04

Tgt Ion: 50 Resp: 98362

Ion Ratio Lower Upper

50 100

52 33.1 23.2 43.0



Abundance Ion 50.05 (49.75 to 50.75): VU032044.D (-64) (-)

Ion 52.05 (51.75 to 52.75): VU032044.D (-64) (-)

100000

80000

60000

40000

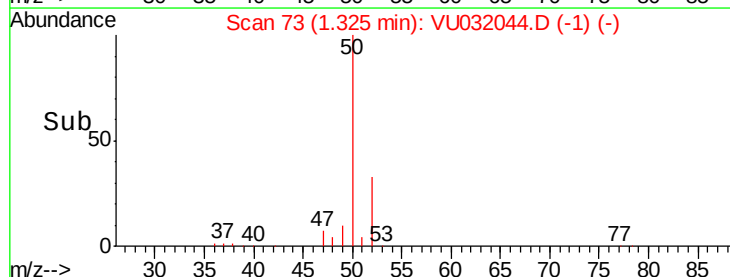
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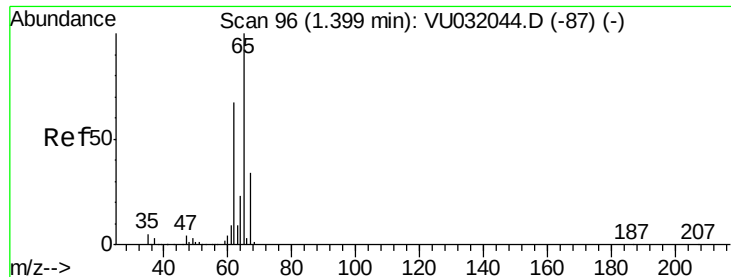
0

1.32

1.30 1.35

Time-->





#5

Vinyl chloride

Concen: 4.526 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU032044.D

Acq: 16 May 2019 13:04

Instrument :

MSVOA_U

ClientSampleId :

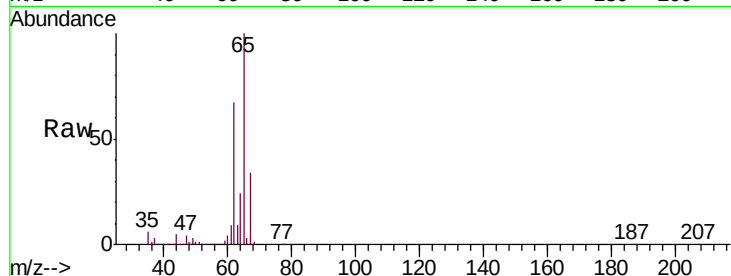
VSTD00508

Tgt Ion: 62 Resp: 107453

Ion Ratio Lower Upper

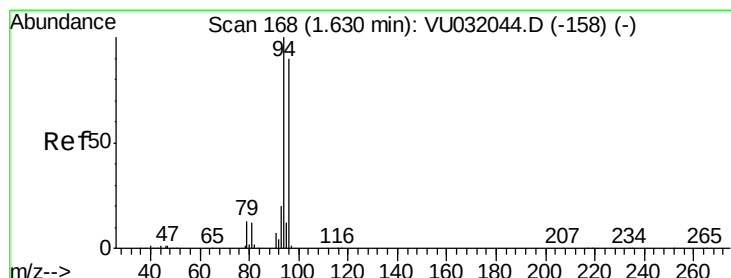
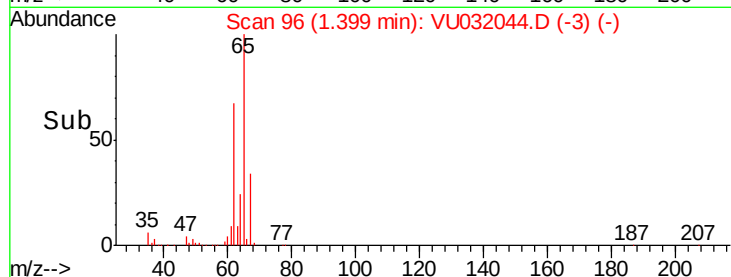
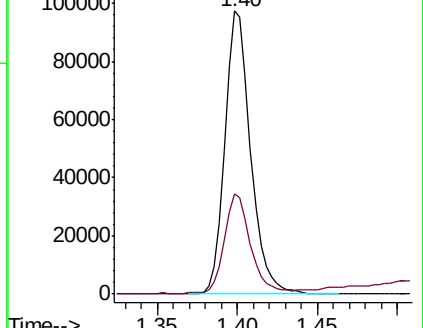
62 100

64 35.5 24.8 46.1



Abundance Ion 62.00 (61.70 to 62.70): VU032044.D (-87) (-)

Ion 64.10 (63.80 to 64.80): VU032044.D (-87) (-)



#6

Bromomethane

Concen: 4.904 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU032044.D

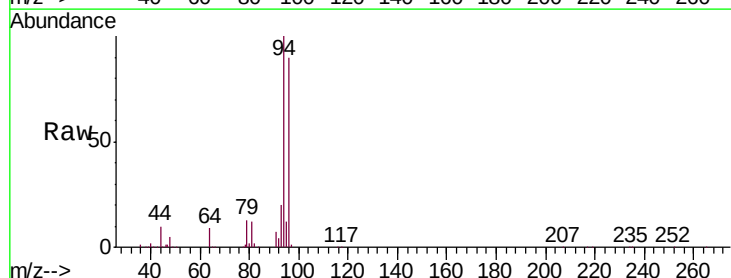
Acq: 16 May 2019 13:04

Tgt Ion: 94 Resp: 61902

Ion Ratio Lower Upper

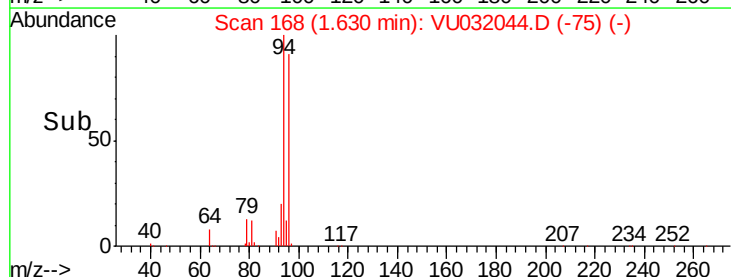
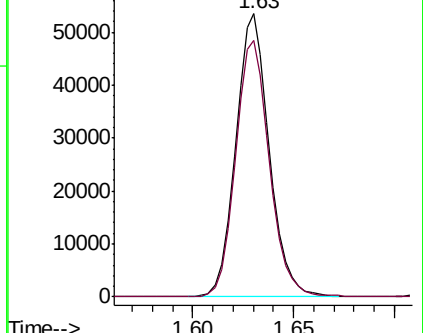
94 100

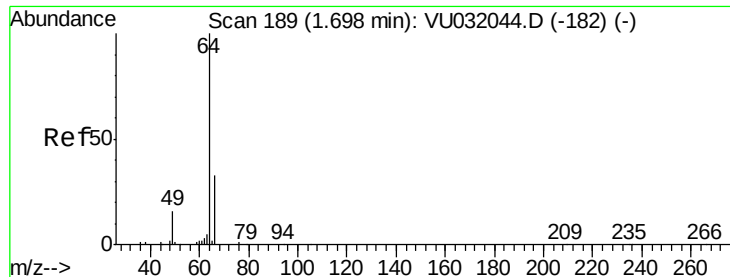
96 90.5 63.3 117.7



Abundance Ion 94.00 (93.70 to 94.70): VU032044.D (-158) (-)

Ion 96.00 (95.70 to 96.70): VU032044.D (-158) (-)





#8

Chloroethane

Concen: 4.107 ug/L

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU032044.D

Acq: 16 May 2019 13:04

Instrument :

MSVOA_U

ClientSampleId :

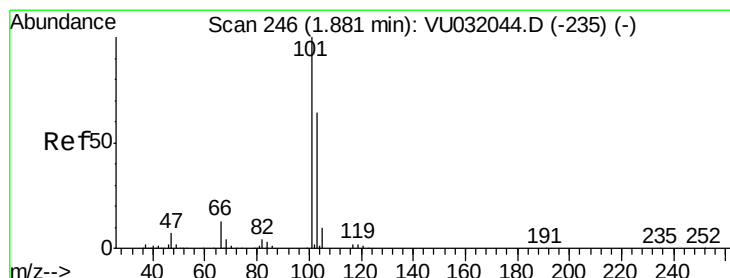
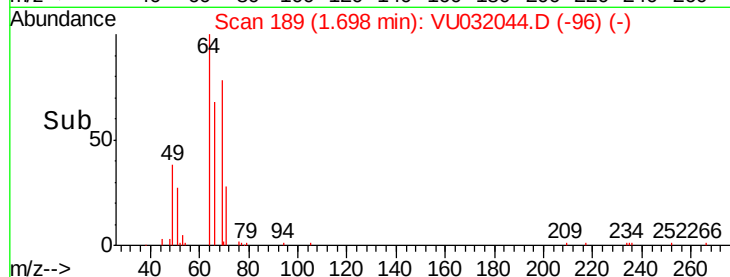
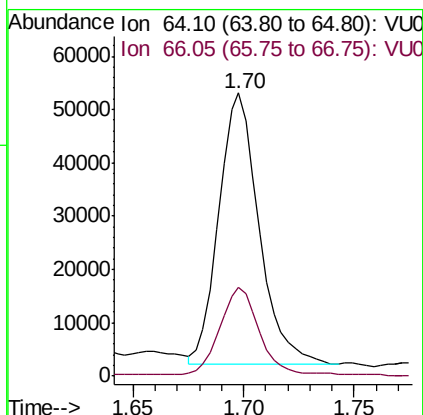
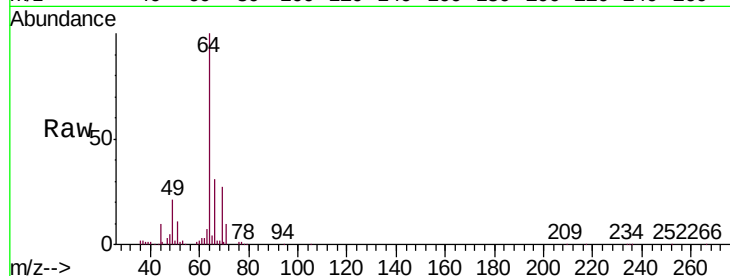
VSTD00508

Tgt Ion: 64 Resp: 64136

Ion Ratio Lower Upper

64 100

66 31.5 22.0 41.0



#9

Trichlorofluoromethane

Concen: 5.169 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU032044.D

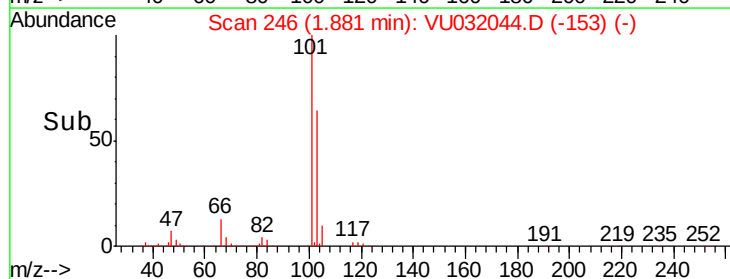
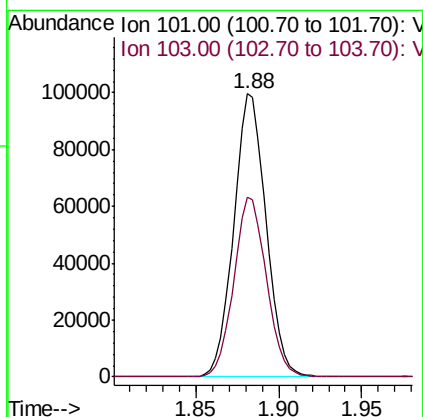
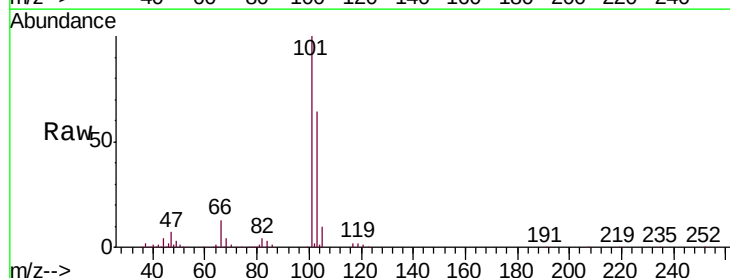
Acq: 16 May 2019 13:04

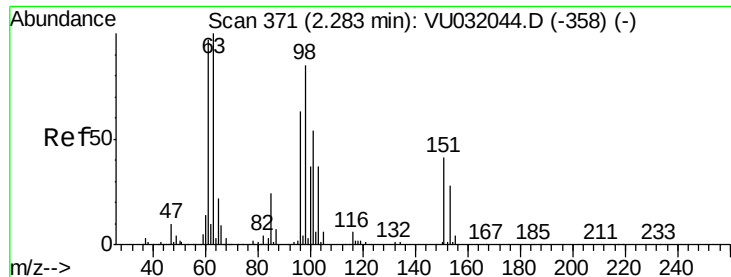
Tgt Ion: 101 Resp: 134959

Ion Ratio Lower Upper

101 100

103 64.2 51.4 77.0





#10

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

Concen: 5.111 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU032044.D

Acq: 16 May 2019 13:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00508

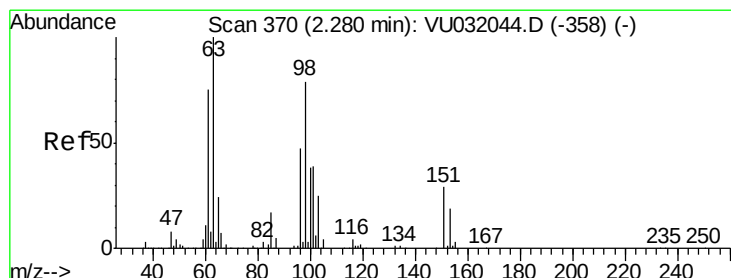
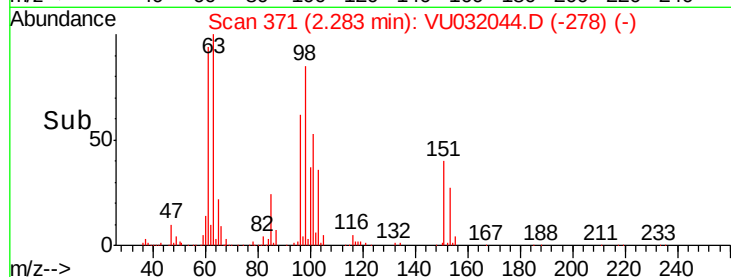
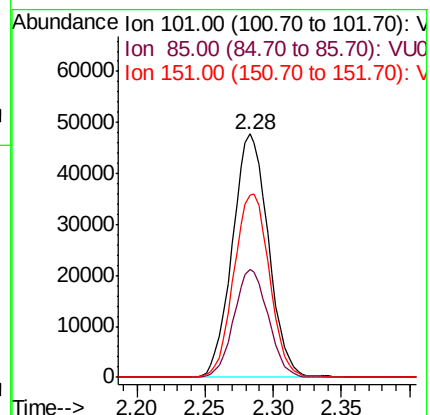
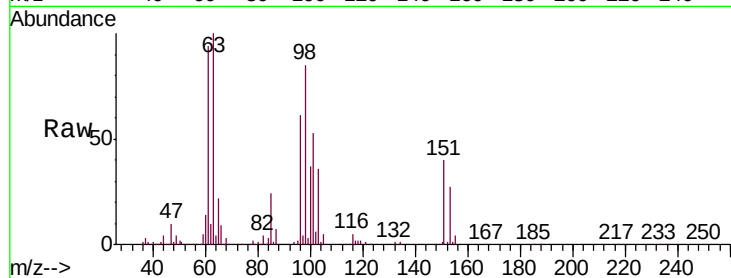
Tgt Ion:101 Resp: 87430

Ion Ratio Lower Upper

101 100

85 42.3 33.8 50.8

151 74.3 59.4 89.2



#12

1,1-Dichloroethene

Concen: 5.071 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032044.D

Acq: 16 May 2019 13:04

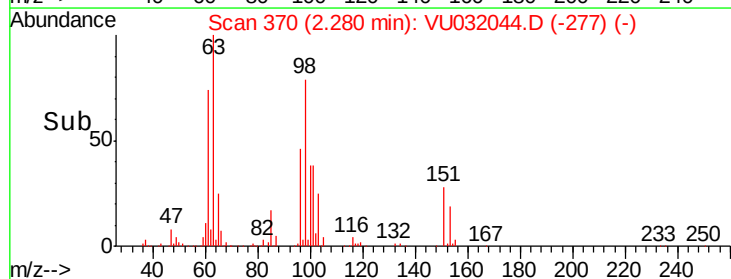
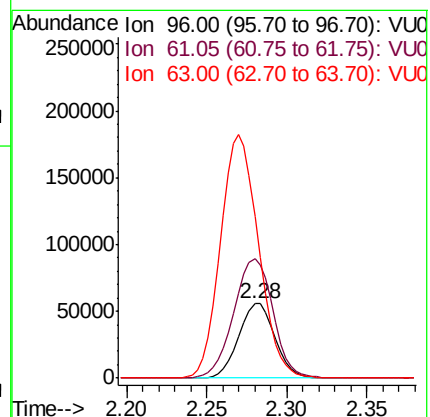
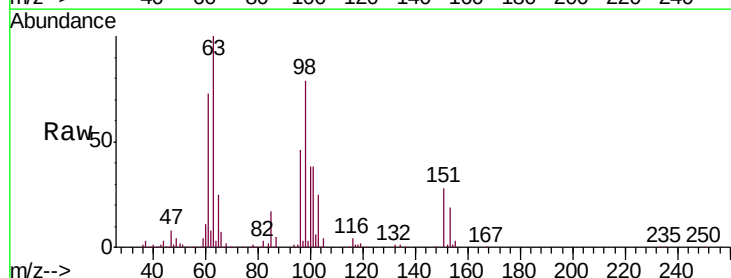
Tgt Ion: 96 Resp: 85958

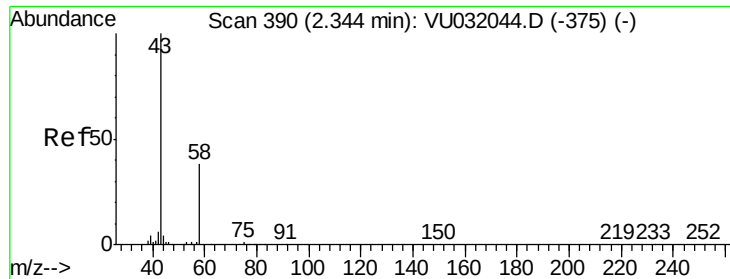
Ion Ratio Lower Upper

96 100

61 159.6 111.7 207.5

63 217.4 152.2 282.6





#13

Acetone

Concen: 41.870 ug/L

RT: 2.34 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU032044.D

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ClientSampleId :

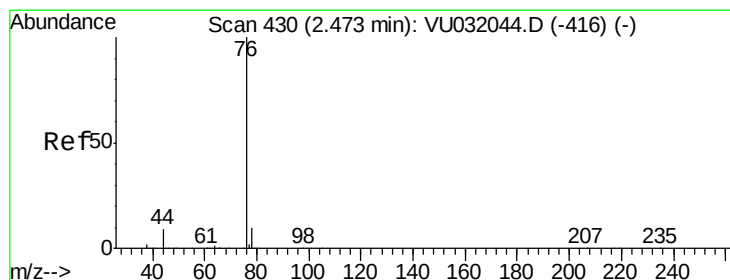
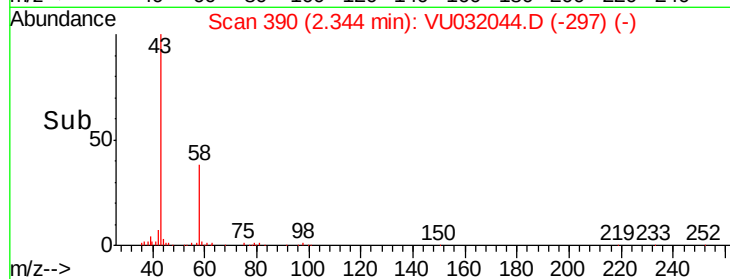
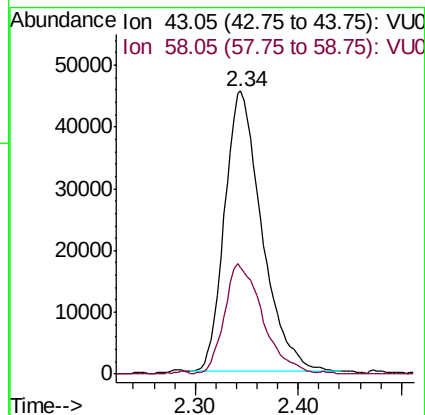
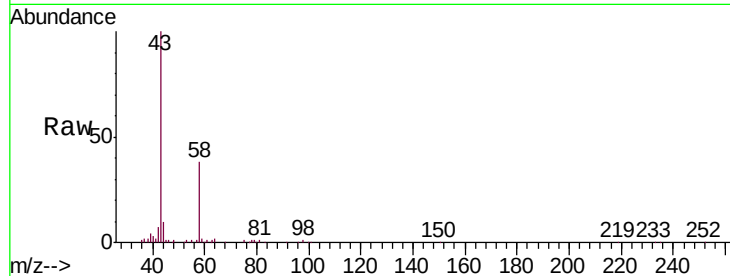
VSTD00508

Tgt Ion: 43 Resp: 114166

Ion Ratio Lower Upper

43 100

58 39.4 0.0 78.8



#14

Carbon disulfide

Concen: 4.706 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU032044.D

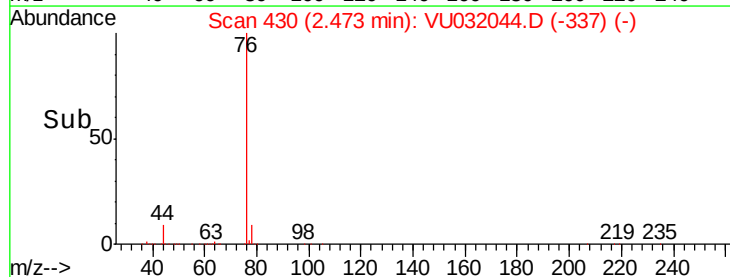
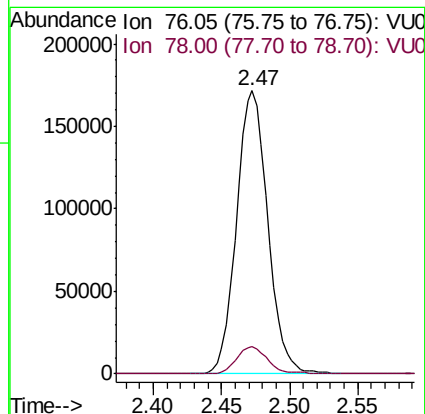
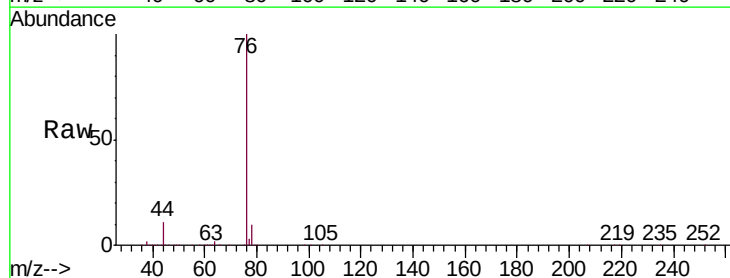
Acq: 16 May 2019 13:04

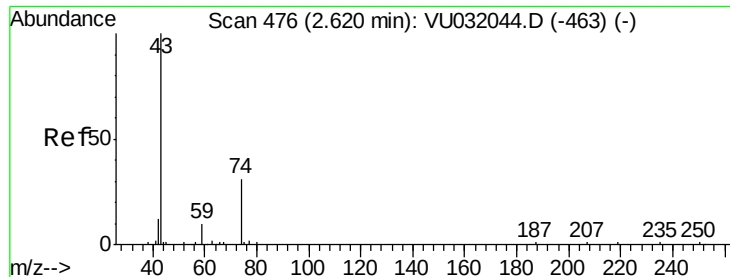
Tgt Ion: 76 Resp: 273158

Ion Ratio Lower Upper

76 100

78 9.7 7.8 11.6

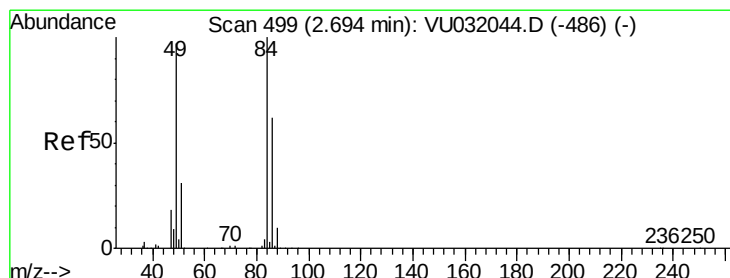
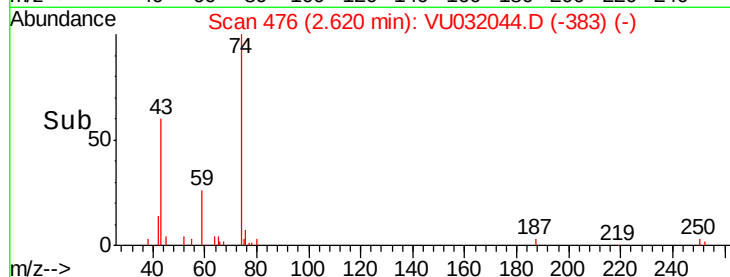
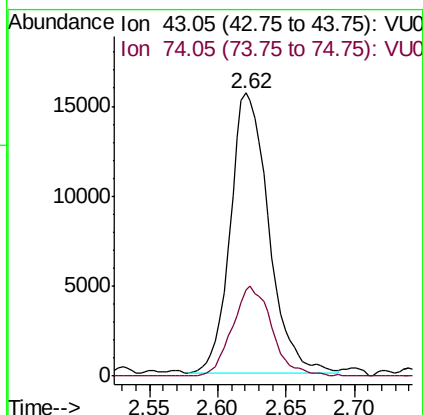
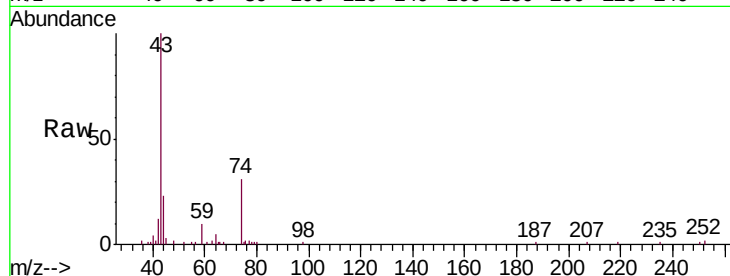




#15
Methyl Acetate
Concen: 3.856 ug/L
RT: 2.62 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU032044.D
Acq: 16 May 2019 13:04

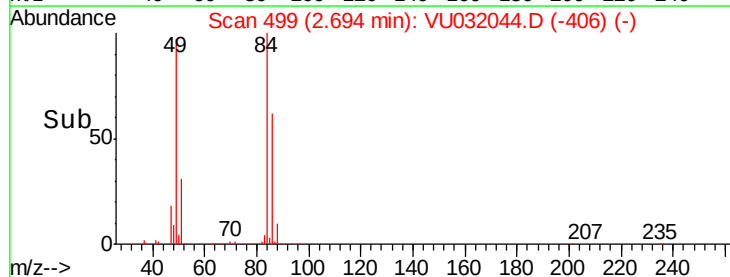
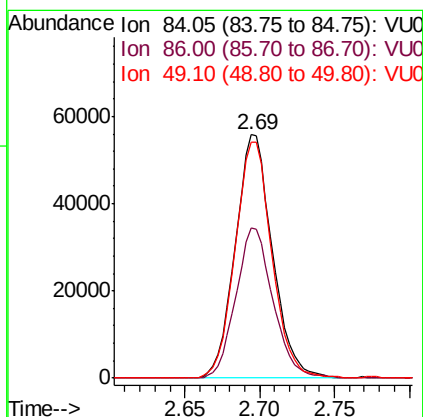
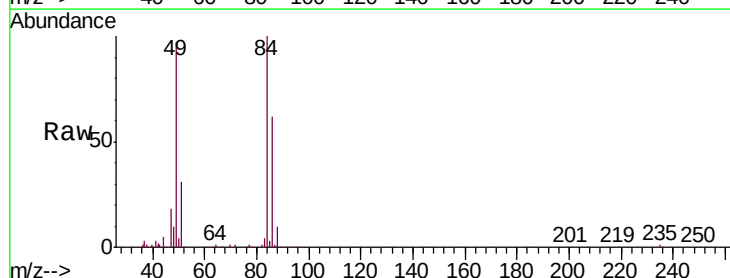
Instrument :
MSVOA_U
ClientSampleId :
VSTD00508

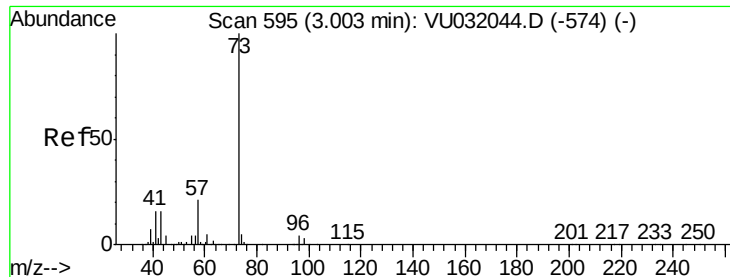
Tgt Ion: 43 Resp: 30649
Ion Ratio Lower Upper
43 100
74 33.0 26.4 39.6



#16
Methylene chloride
Concen: 4.826 ug/L
RT: 2.69 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU032044.D
Acq: 16 May 2019 13:04

Tgt Ion: 84 Resp: 96235
Ion Ratio Lower Upper
84 100
86 61.6 43.1 80.1
49 96.7 67.7 125.7





#17

Methyl tert-butyl Ether

Concen: 4.856 ug/L

RT: 3.00 min Scan# 595

Delta R.T. 0.00 min

Lab File: VU032044.D

Acq: 16 May 2019 13:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00508

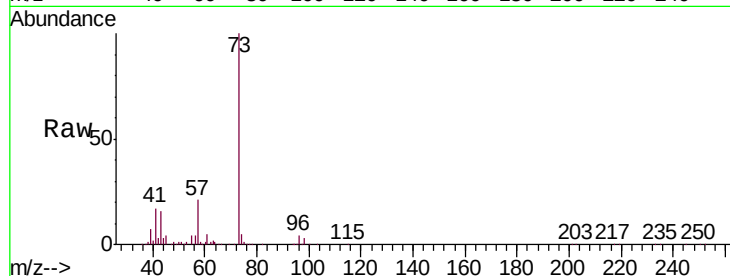
Tgt Ion: 73 Resp: 201281

Ion Ratio Lower Upper

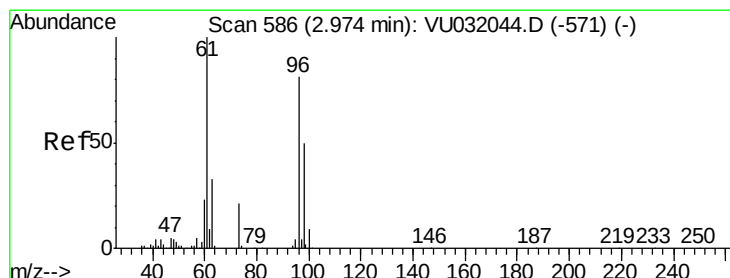
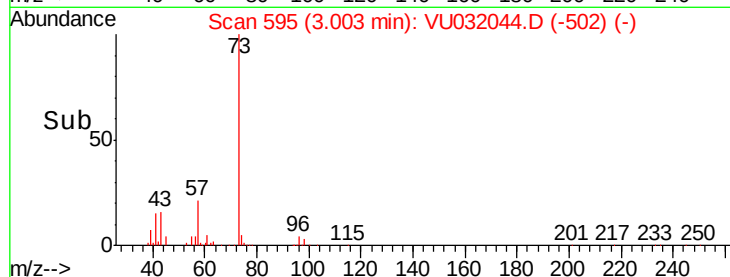
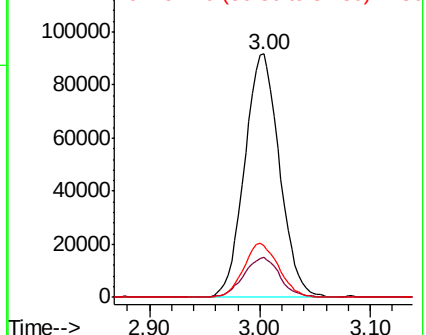
73 100

43 16.3 13.0 19.6

57 22.4 17.9 26.9



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: 5.016 ug/L

RT: 2.97 min Scan# 586

Delta R.T. 0.00 min

Lab File: VU032044.D

Acq: 16 May 2019 13:04

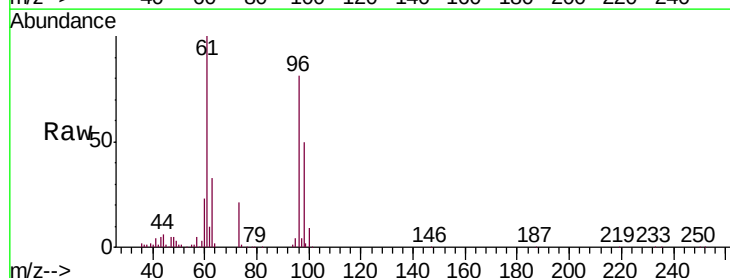
Tgt Ion: 96 Resp: 93635

Ion Ratio Lower Upper

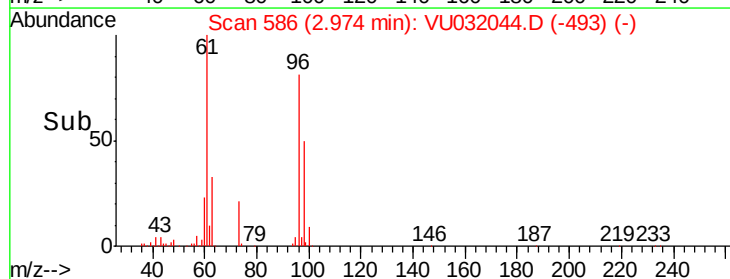
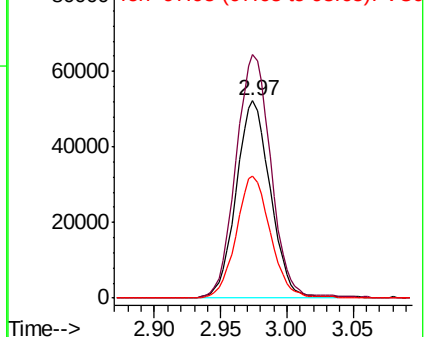
96 100

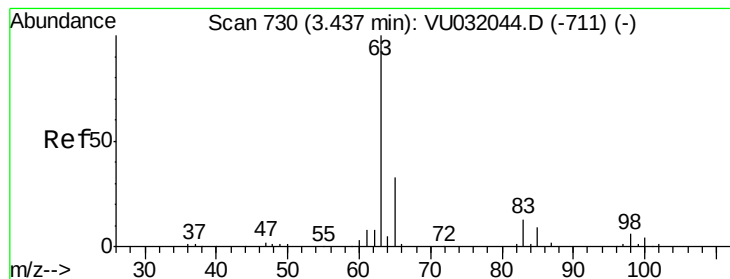
61 123.6 86.5 160.7

98 62.2 43.5 80.9



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: 4.695 ug/L

RT: 3.44 min Scan# 730

Delta R.T. 0.00 min

Lab File: VU032044.D

Acq: 16 May 2019 13:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00508

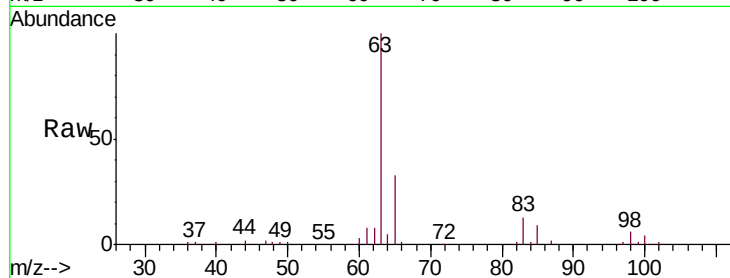
Tgt Ion: 63 Resp: 148364

Ion Ratio Lower Upper

63 100

65 32.8 23.0 42.6

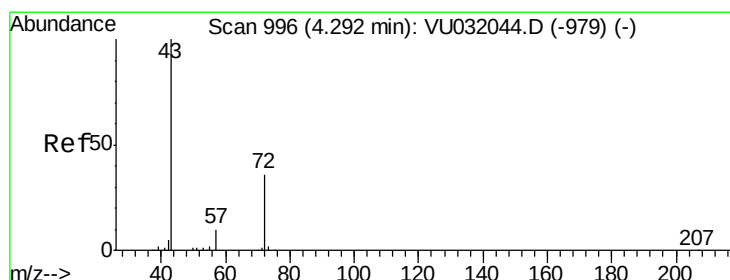
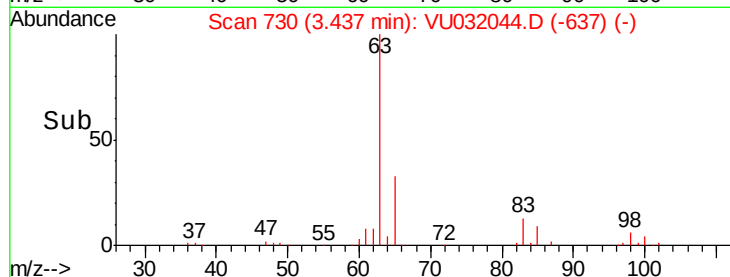
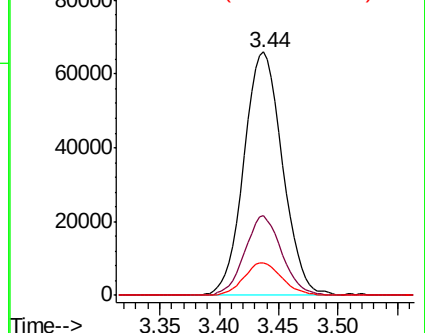
83 13.3 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VU032044.D (-711) (-)

Ion 65.10 (64.80 to 65.80): VU032044.D (-711) (-)

Ion 83.05 (82.75 to 83.75): VU032044.D (-711) (-)



#21

2-Butanone

Concen: 42.473 ug/L

RT: 4.29 min Scan# 996

Delta R.T. 0.00 min

Lab File: VU032044.D

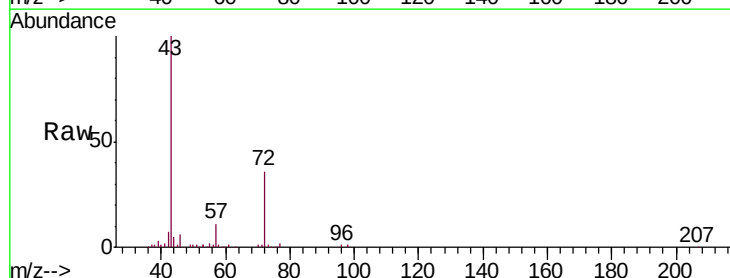
Acq: 16 May 2019 13:04

Tgt Ion: 43 Resp: 176943

Ion Ratio Lower Upper

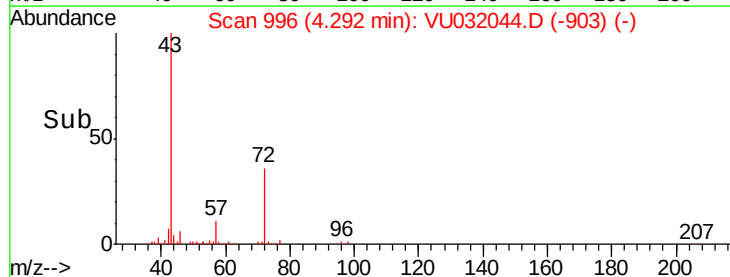
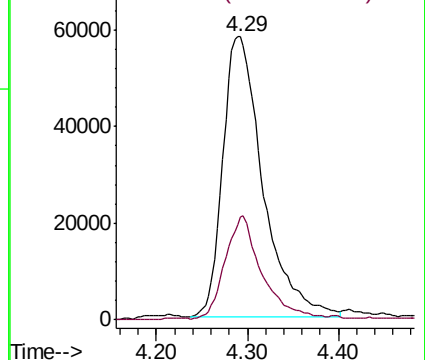
43 100

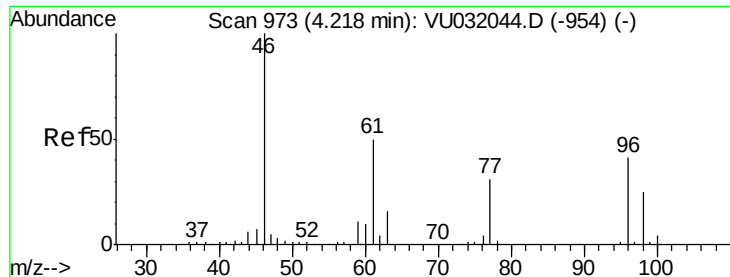
72 33.5 16.8 50.3



Abundance Ion 43.05 (42.75 to 43.75): VU032044.D (-979) (-)

Ion 72.10 (71.80 to 72.80): VU032044.D (-979) (-)



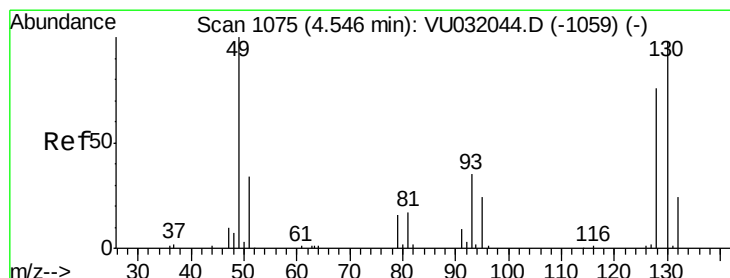
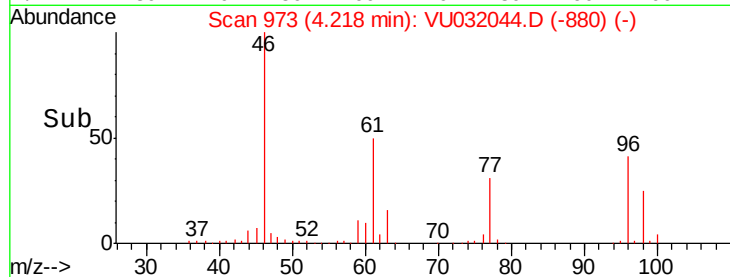
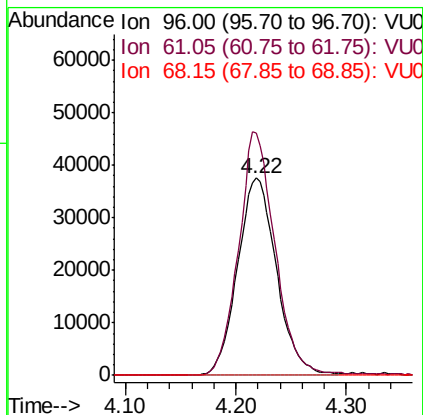
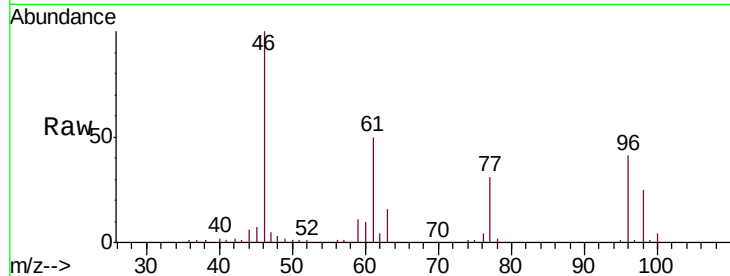


#22

cis-1,2-Dichloroethene
Concen: 4.944 ug/L
RT: 4.22 min Scan# 973
Delta R.T. 0.00 min
Lab File: VU032044.D
Acq: 16 May 2019 13:04

Instrument :
MSVOA_U
ClientSampleId :
VSTD00508

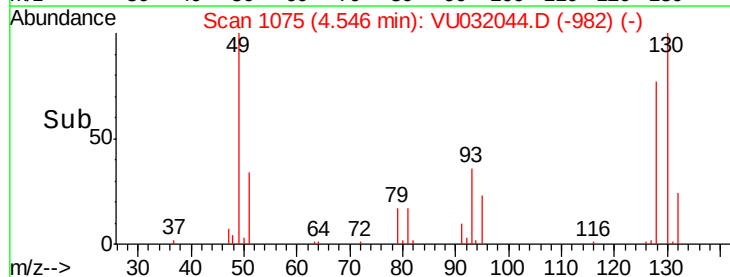
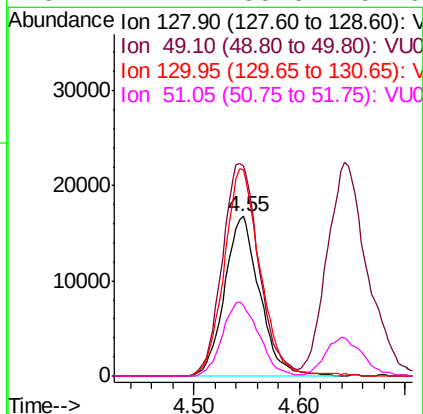
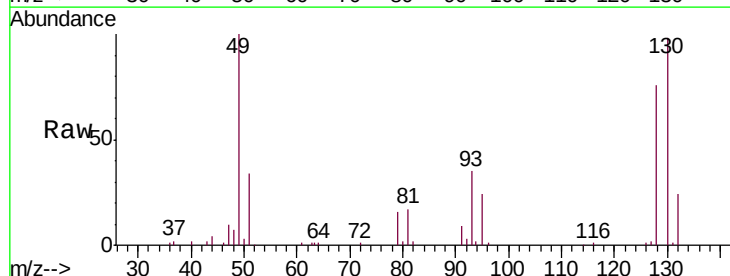
Tgt Ion: 96 Resp: 91988
Ion Ratio Lower Upper
96 100
61 122.6 85.8 159.4
68 0.0 0.0 0.0

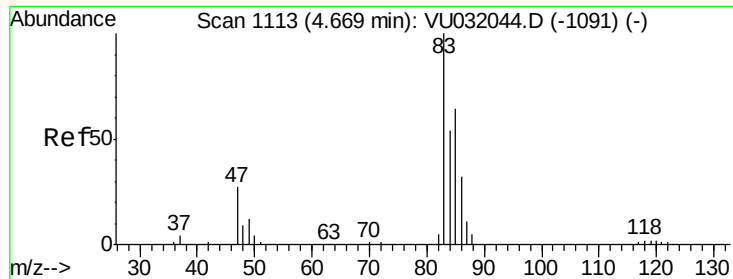


#23

Bromochloromethane
Concen: 4.816 ug/L
RT: 4.55 min Scan# 1075
Delta R.T. 0.00 min
Lab File: VU032044.D
Acq: 16 May 2019 13:04

Tgt Ion: 128 Resp: 38558
Ion Ratio Lower Upper
128 100
49 131.7 92.2 171.2
130 129.0 90.3 167.7
51 44.1 35.3 52.9

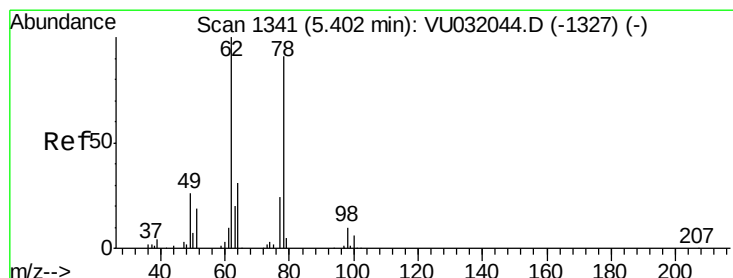
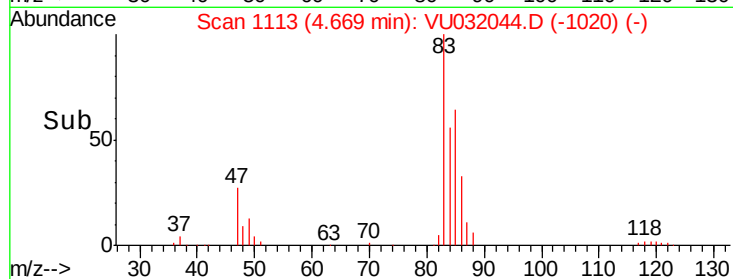
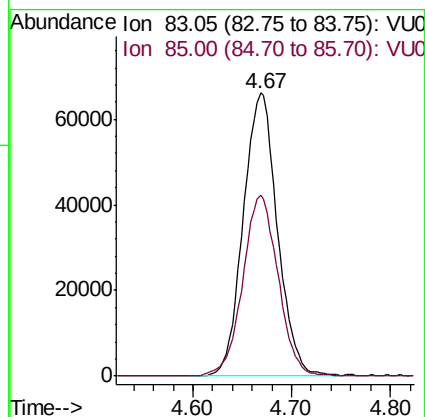
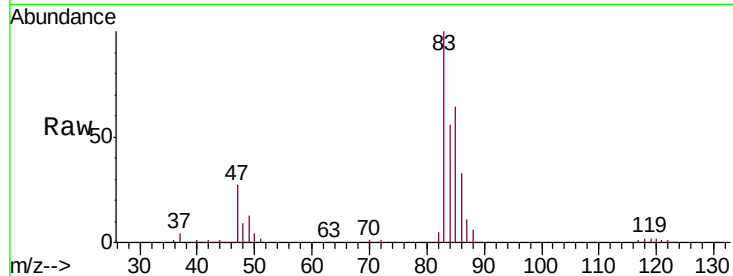




#25
Chloroform
Concen: 4.887 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU032044.D
Acq: 16 May 2019 13:04

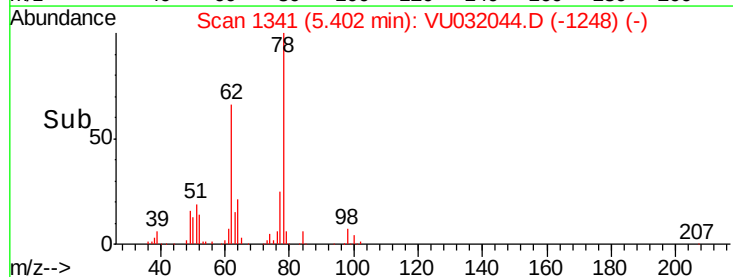
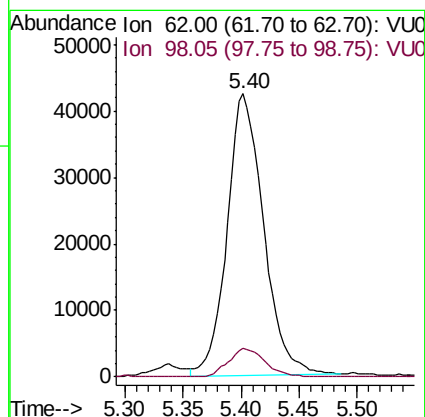
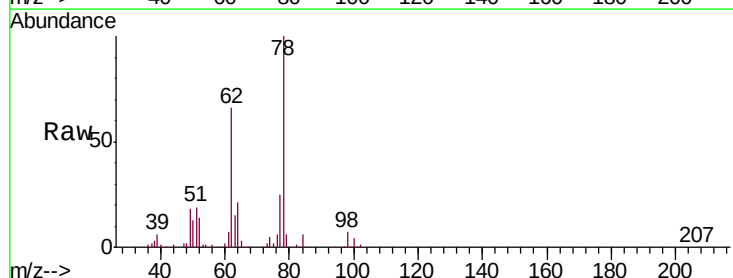
Instrument :
MSVOA_U
ClientSampleId :
VSTD00508

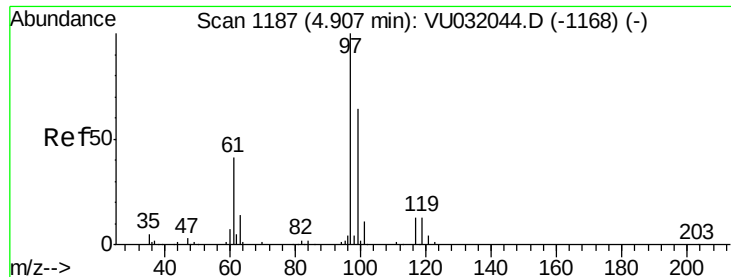
Tgt Ion: 83 Resp: 158287
Ion Ratio Lower Upper
83 100
85 64.1 44.9 83.3



#27
1,2-Dichloroethane
Concen: 4.917 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU032044.D
Acq: 16 May 2019 13:04

Tgt Ion: 62 Resp: 92390
Ion Ratio Lower Upper
62 100
98 10.0 8.0 12.0

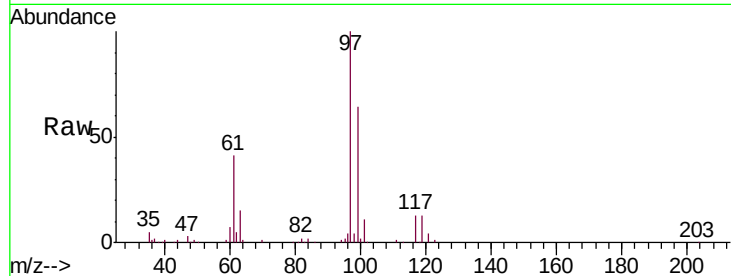




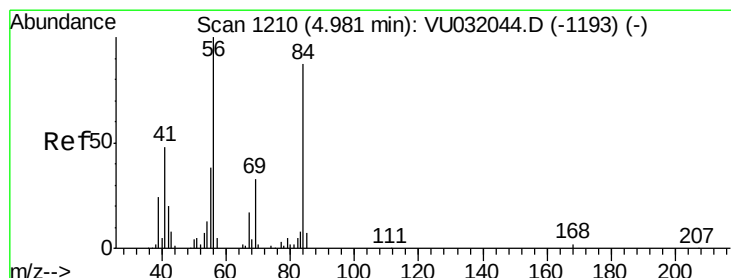
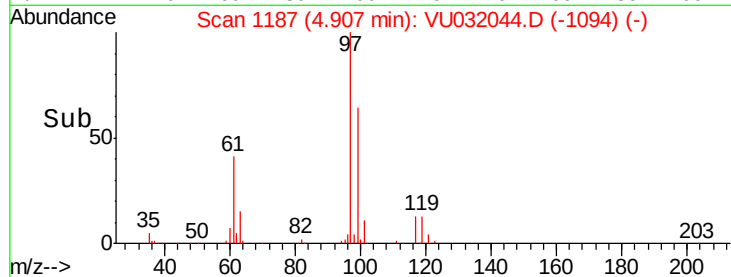
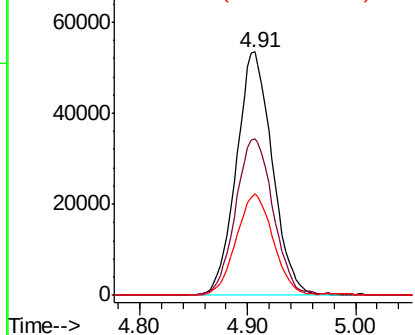
#29
 1,1,1-Trichloroethane
 Concen: 4.972 ug/L
 RT: 4.91 min Scan# 1187
 Delta R.T. 0.00 min
 Lab File: VU032044.D
 Acq: 16 May 2019 13:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00508

Tgt Ion	Ratio	Lower	Upper
97	100		
99	67.1	53.7	80.5
61	42.8	34.2	51.4

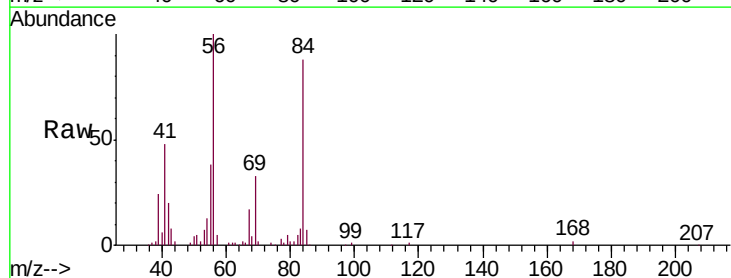


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

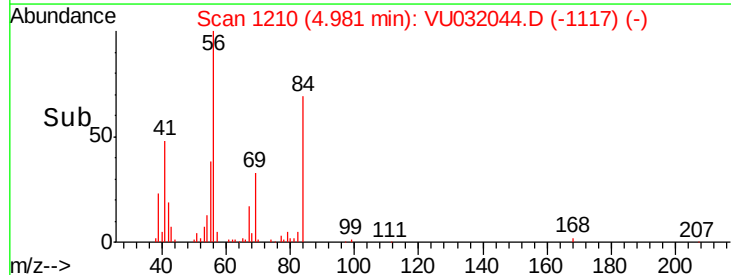
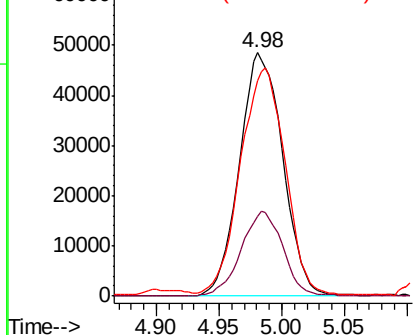


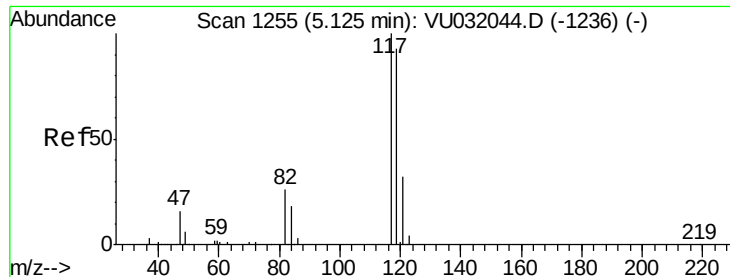
#30
 Cyclohexane
 Concen: 4.270 ug/L
 RT: 4.98 min Scan# 1210
 Delta R.T. 0.00 min
 Lab File: VU032044.D
 Acq: 16 May 2019 13:04

Tgt Ion	Ratio	Lower	Upper
56	100		
69	33.6	26.9	40.3
84	95.8	76.6	115.0



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0

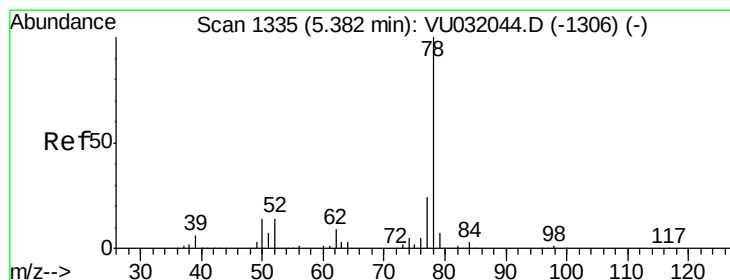
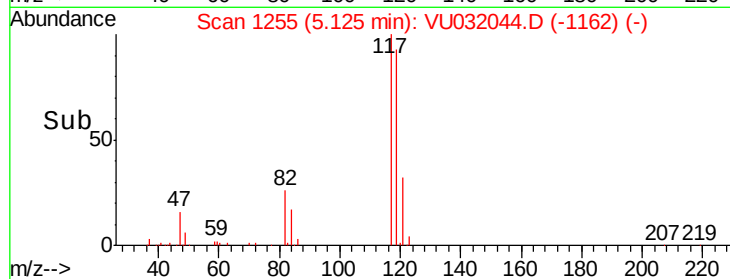
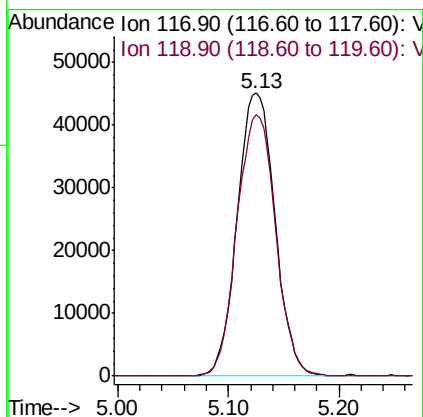
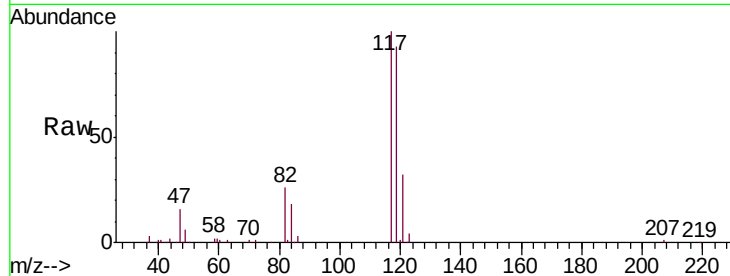




#31
Carbon tetrachloride
Concen: 5.034 ug/L
RT: 5.13 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VU032044.D
Acq: 16 May 2019 13:04

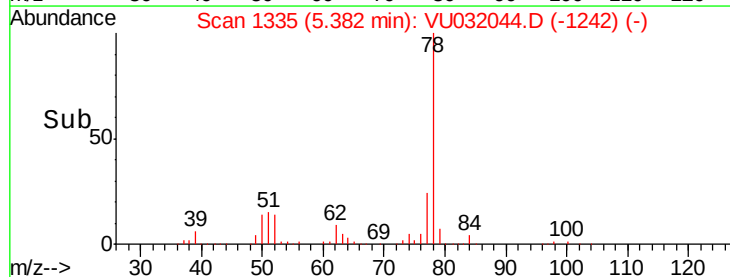
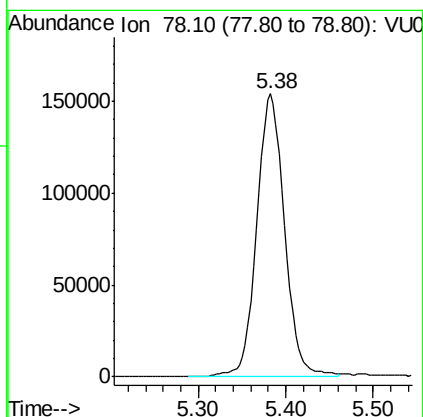
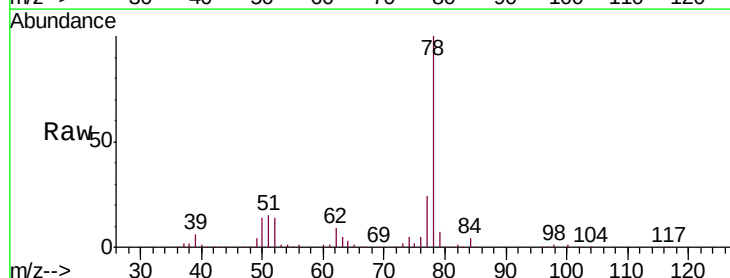
Instrument :
MSVOA_U
ClientSampleId :
VSTD00508

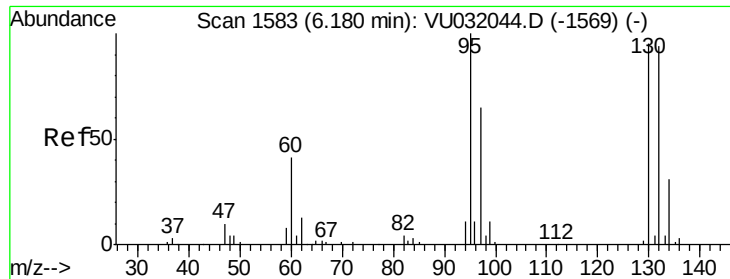
Tgt Ion:117 Resp: 107054
Ion Ratio Lower Upper
117 100
119 94.7 75.8 113.6



#33
Benzene
Concen: 4.738 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU032044.D
Acq: 16 May 2019 13:04

Tgt Ion: 78 Resp: 340683





#34

Trichloroethene

Concen: 4.865 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032044.D

Acq: 16 May 2019 13:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00508

Tgt Ion: 95 Resp: 92980

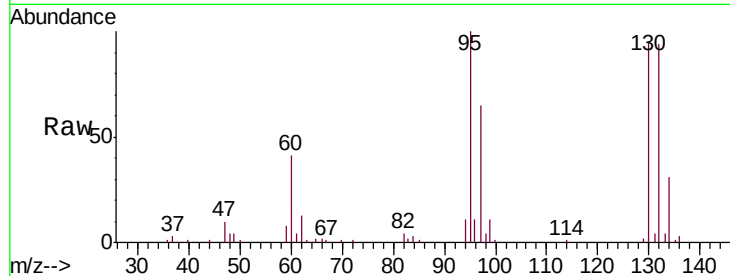
Ion Ratio Lower Upper

95 100

97 64.6 45.2 84.0

132 94.4 66.1 122.7

130 95.3 66.7 123.9

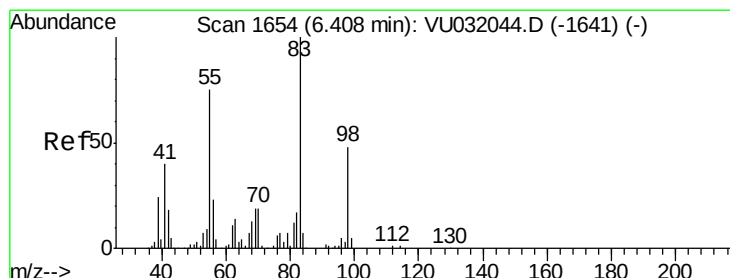
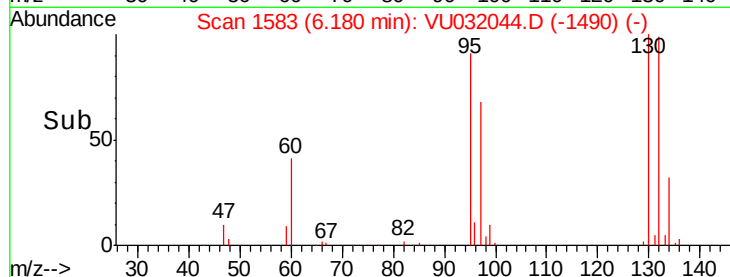
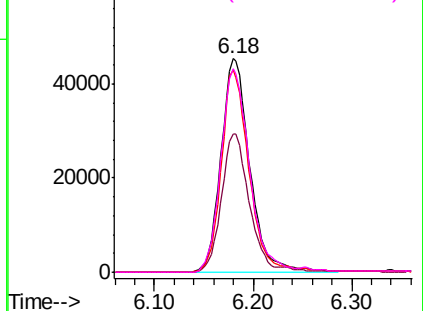


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.862 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU032044.D

Acq: 16 May 2019 13:04

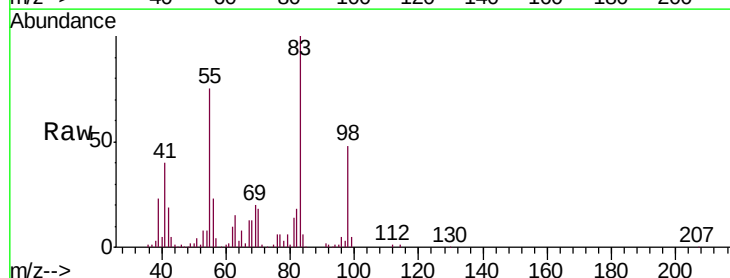
Tgt Ion: 83 Resp: 130766

Ion Ratio Lower Upper

83 100

55 74.6 59.7 89.5

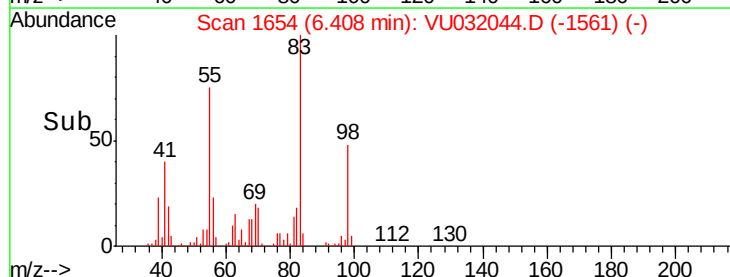
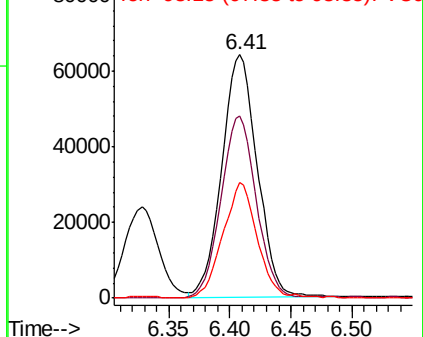
98 46.0 36.8 55.2

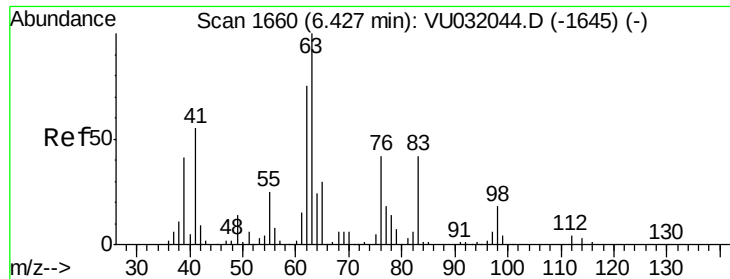


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

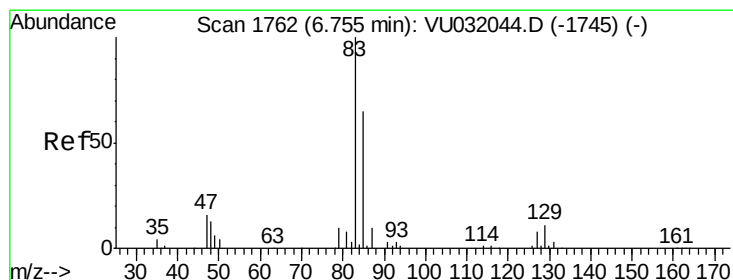
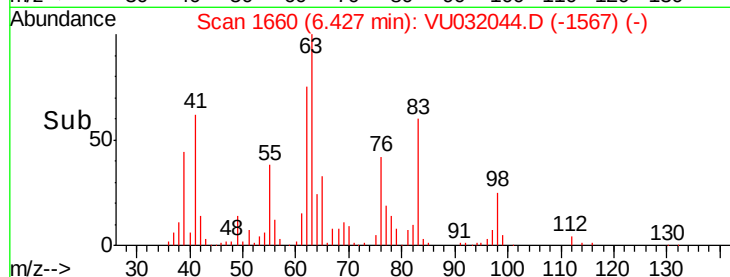
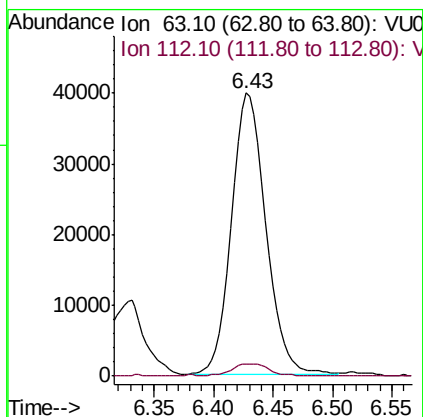
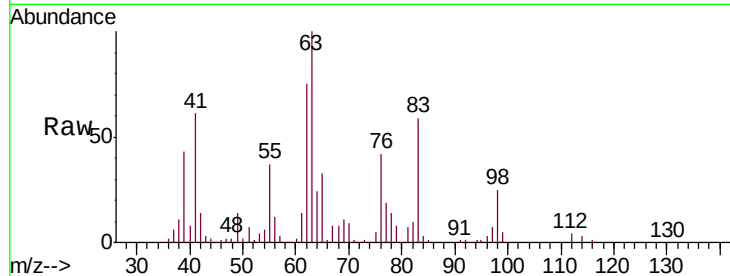




#37
 1,2-Dichloropropane
 Concen: 4.433 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU032044.D
 Acq: 16 May 2019 13:04

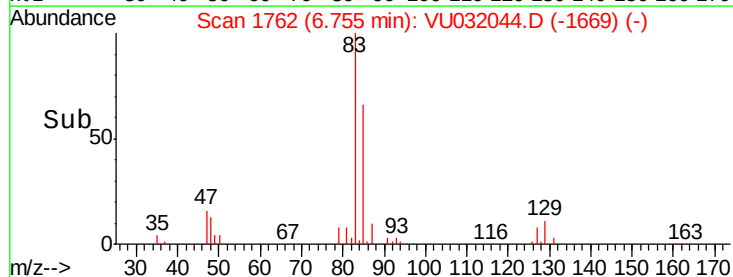
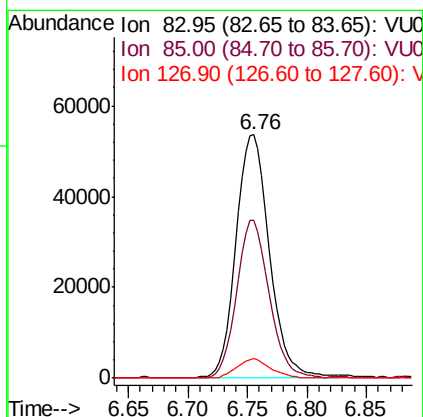
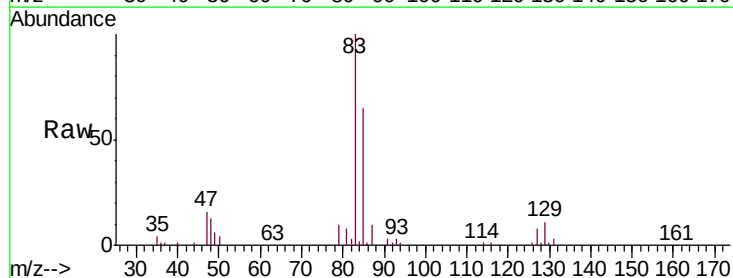
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00508

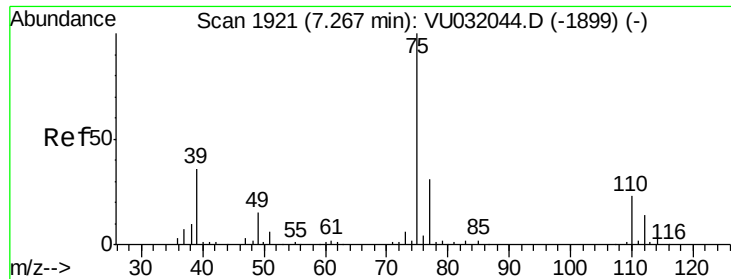
Tgt Ion: 63 Resp: 79924
 Ion Ratio Lower Upper
 63 100
 112 4.7 3.8 5.6



#38
 Bromodichloromethane
 Concen: 4.813 ug/L
 RT: 6.76 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: VU032044.D
 Acq: 16 May 2019 13:04

Tgt Ion: 83 Resp: 104982
 Ion Ratio Lower Upper
 83 100
 85 65.0 45.5 84.5
 127 7.9 6.3 9.5

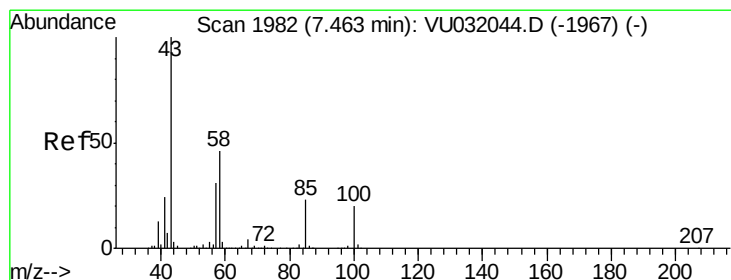
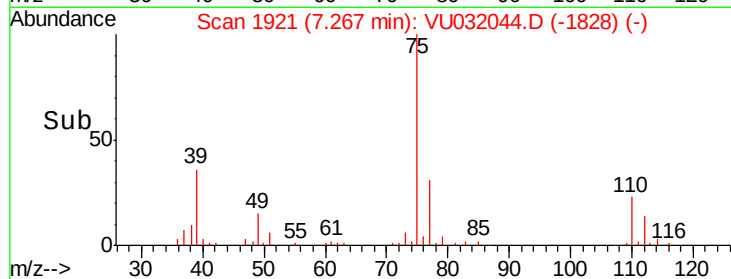
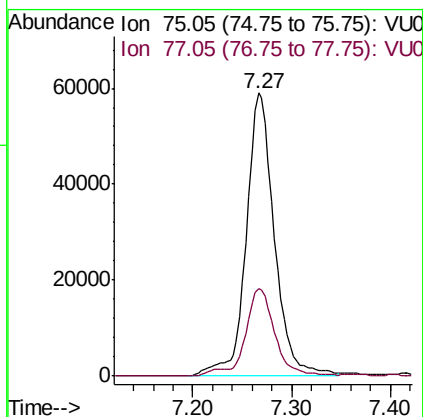
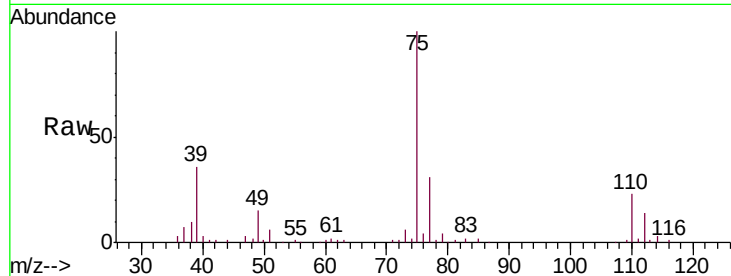




#39
 cis-1,3-Dichloropropene
 Concen: 4.975 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU032044.D
 Acq: 16 May 2019 13:04

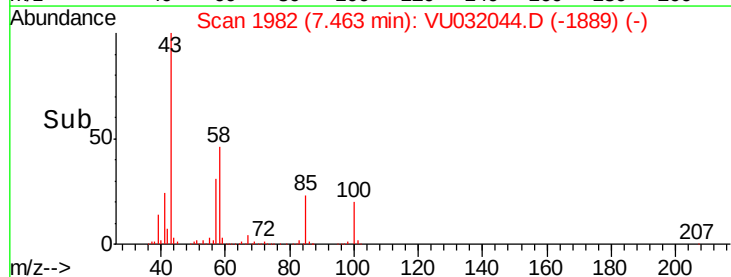
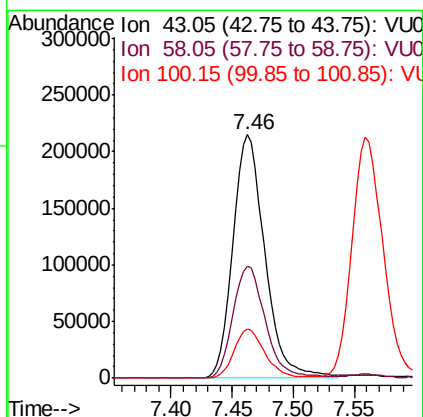
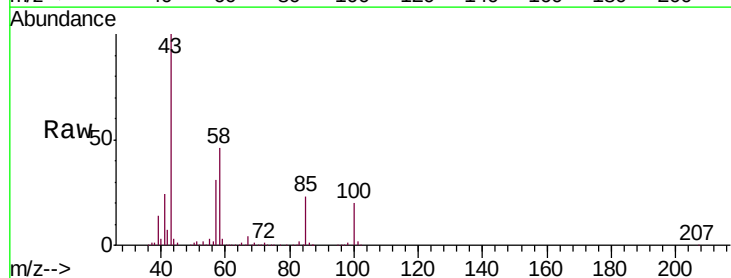
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00508

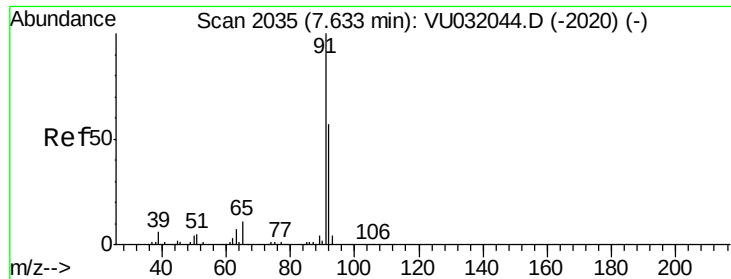
Tgt Ion: 75 Resp: 116616
 Ion Ratio Lower Upper
 75 100
 77 31.0 21.7 40.3



#40
 4-Methyl-2-pentanone
 Concen: 41.153 ug/L
 RT: 7.46 min Scan# 1982
 Delta R.T. 0.00 min
 Lab File: VU032044.D
 Acq: 16 May 2019 13:04

Tgt Ion: 43 Resp: 392138
 Ion Ratio Lower Upper
 43 100
 58 46.6 37.3 55.9
 100 19.4 15.5 23.3





#42

Toluene

Concen: 5.010 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032044.D

Acq: 16 May 2019 13:04

Instrument :

MSVOA_U

ClientSampleId :

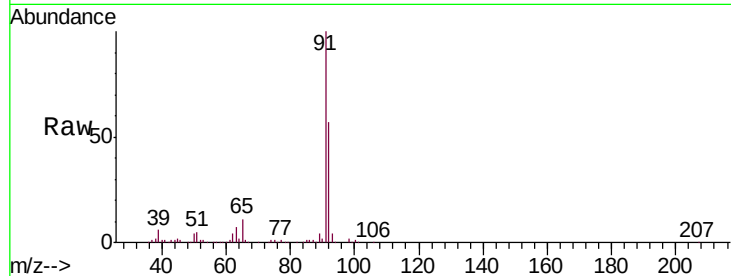
VSTD00508

Tgt Ion: 91 Resp: 368324

Ion Ratio Lower Upper

91 100

92 57.4 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU032044.D (-2020) (-)

Ion 92.15 (91.85 to 92.85): VU032044.D (-2020) (-)

7.63

200000

150000

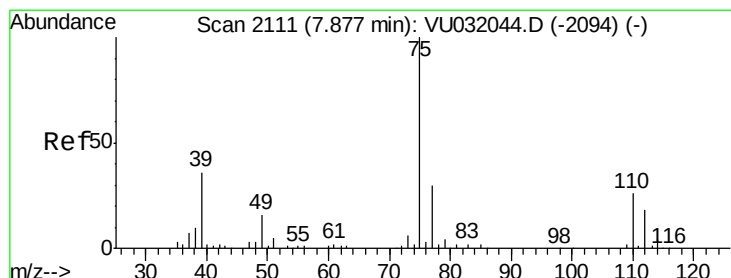
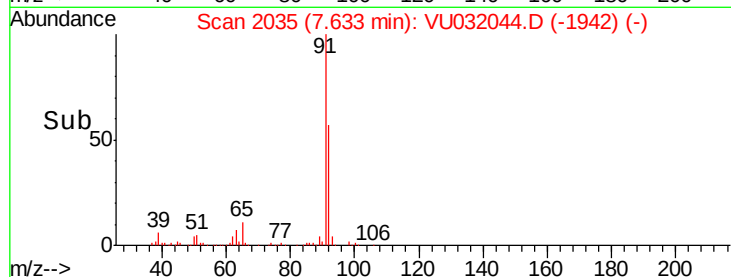
100000

50000

0

7.60 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.940 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU032044.D

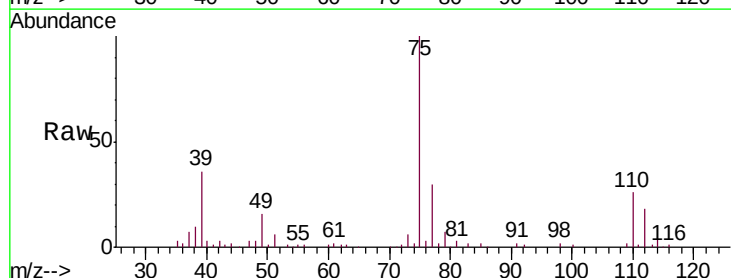
Acq: 16 May 2019 13:04

Tgt Ion: 75 Resp: 91002

Ion Ratio Lower Upper

75 100

77 30.0 21.0 39.0



Abundance Ion 75.05 (74.75 to 75.75): VU032044.D (-2094) (-)

Ion 77.05 (76.75 to 77.75): VU032044.D (-2094) (-)

7.88

50000

40000

30000

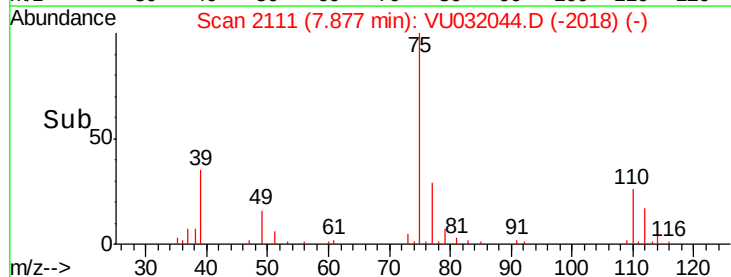
20000

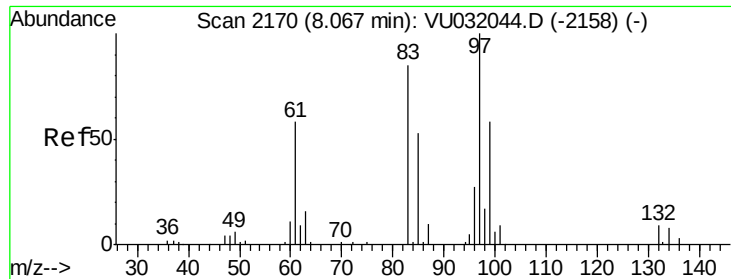
10000

0

7.80 7.85 7.90 7.95

Time-->

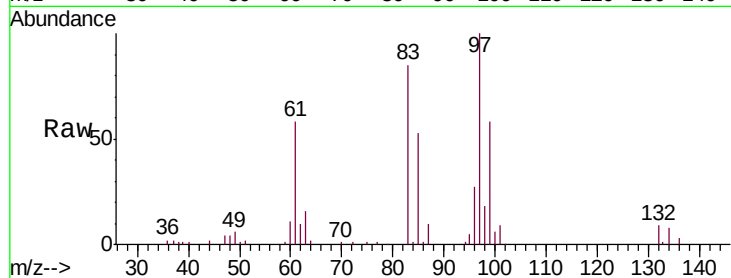




#45
 1,1,2-Trichloroethane
 Concen: 4.831 ug/L
 RT: 8.07 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VU032044.D
 Acq: 16 May 2019 13:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00508

Tgt Ion:	97	Resp:	61088
Ion	Ratio	Lower	Upper
97	100		
99	58.2	40.7	75.7
83	85.2	59.6	110.8
85	53.3	37.3	69.3



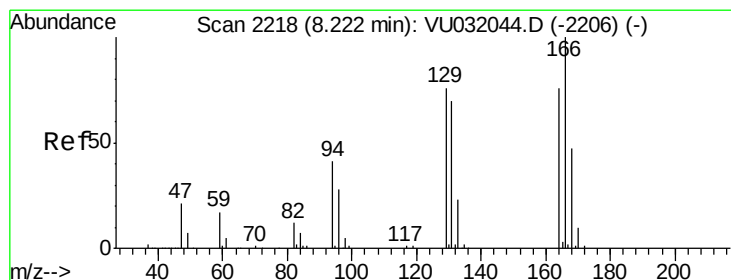
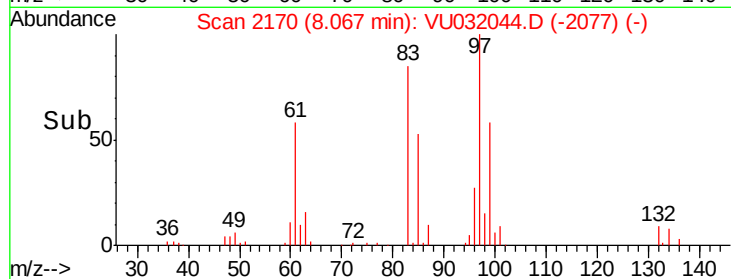
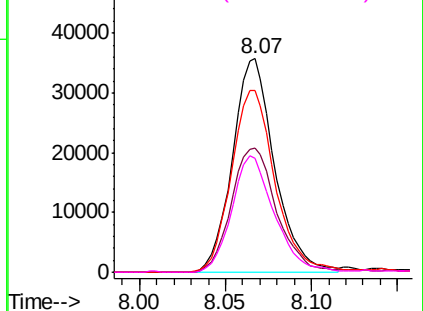
Abundance

Ion 96.95 (96.65 to 97.65): VU032044.D (-2158) (-)

Ion 99.05 (98.75 to 99.75): VU032044.D (-2158) (-)

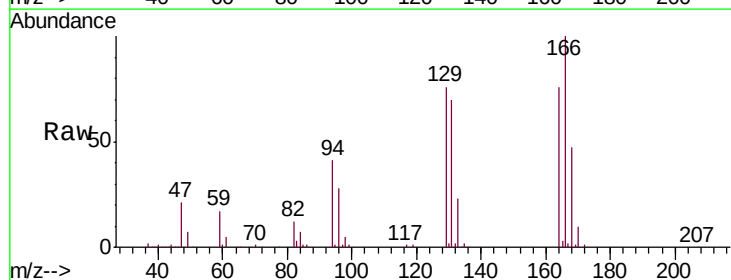
Ion 82.95 (82.65 to 83.65): VU032044.D (-2158) (-)

Ion 85.00 (84.70 to 85.70): VU032044.D (-2158) (-)



#47
 Tetrachloroethene
 Concen: 5.048 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU032044.D
 Acq: 16 May 2019 13:04

Tgt Ion:	164	Resp:	68145
Ion	Ratio	Lower	Upper
164	100		
129	100.4	70.3	130.5
131	92.2	64.5	119.9
166	131.9	92.3	171.5



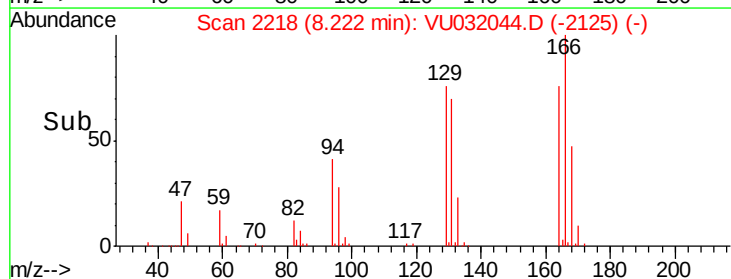
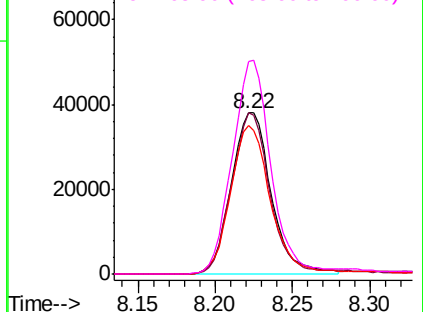
Abundance

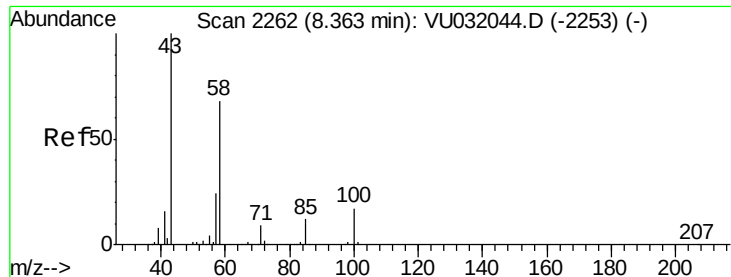
Ion 163.90 (163.60 to 164.60): VU032044.D (-2206) (-)

Ion 128.95 (128.65 to 129.65): VU032044.D (-2206) (-)

Ion 130.95 (130.65 to 131.65): VU032044.D (-2206) (-)

Ion 165.90 (165.60 to 166.60): VU032044.D (-2206) (-)

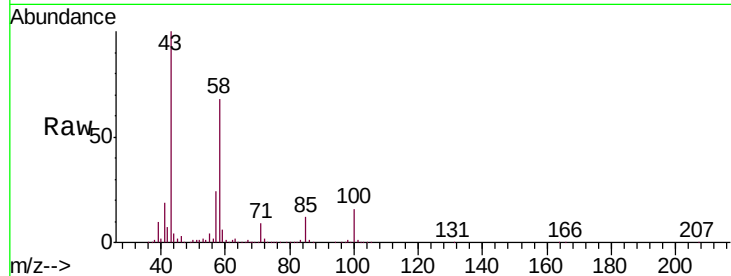




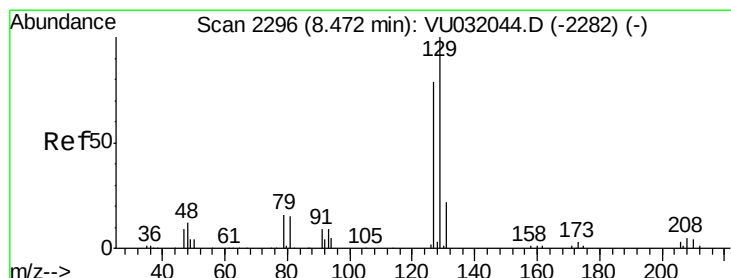
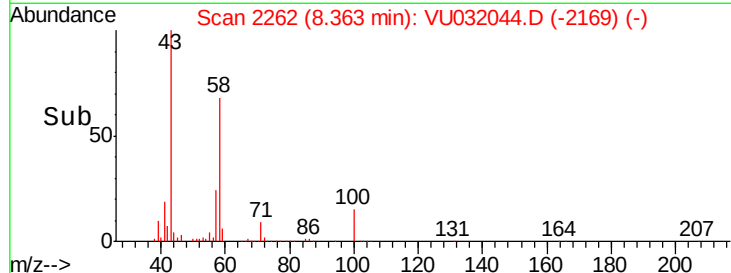
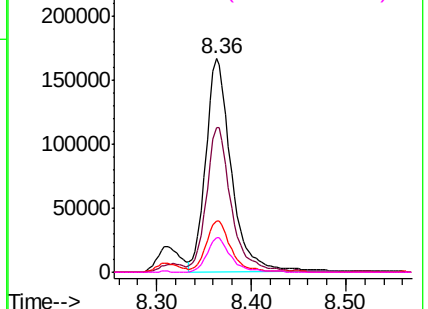
#48
2-Hexanone
Concen: 43.077 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VU032044.D
Acq: 16 May 2019 13:04

Instrument :
MSVOA_U
ClientSampleId :
VSTD00508

Tgt Ion: 43 Resp: 309975
Ion Ratio Lower Upper
43 100
58 64.5 51.6 77.4
57 23.0 18.4 27.6
100 15.3 12.2 18.4

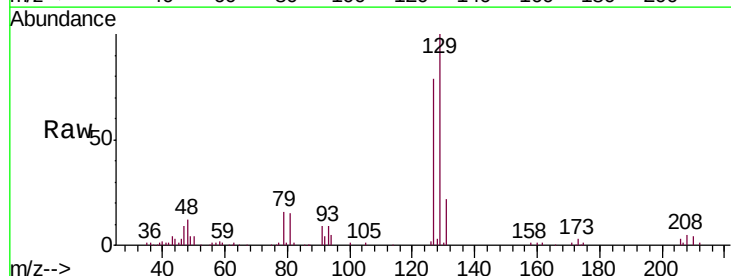


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

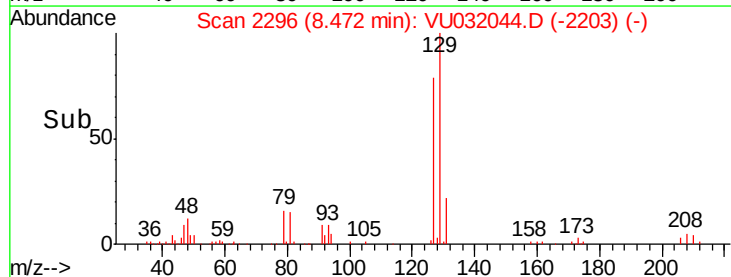
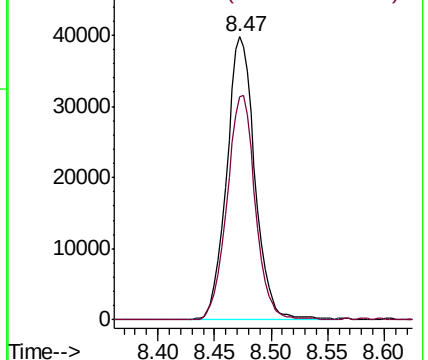


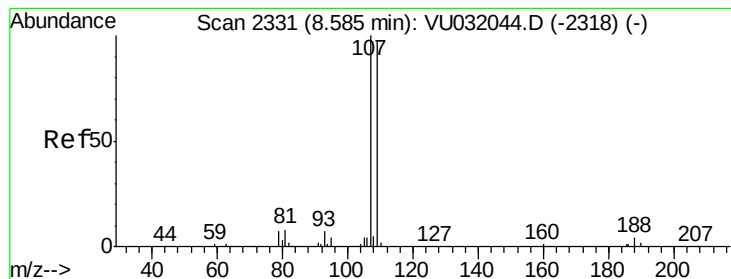
#49
Dibromochloromethane
Concen: 5.016 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032044.D
Acq: 16 May 2019 13:04

Tgt Ion: 129 Resp: 69059
Ion Ratio Lower Upper
129 100
127 78.9 55.2 102.6



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V





#50

1,2-Dibromoethane

Concen: 5.078 ug/L

RT: 8.58 min Scan# 2331

Delta R.T. 0.00 min

Lab File: VU032044.D

Acq: 16 May 2019 13:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00508

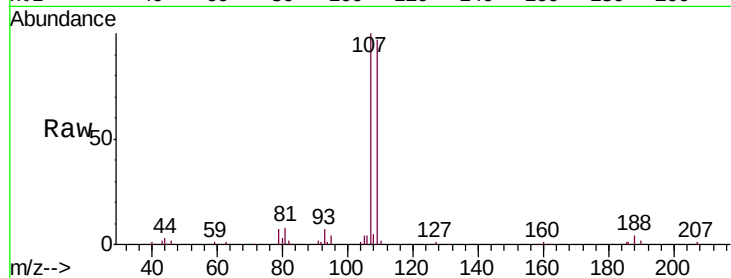
Tgt Ion:107 Resp: 58929

Ion Ratio Lower Upper

107 100

109 96.8 67.8 125.8

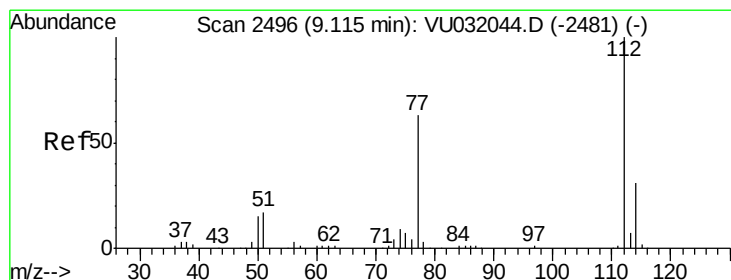
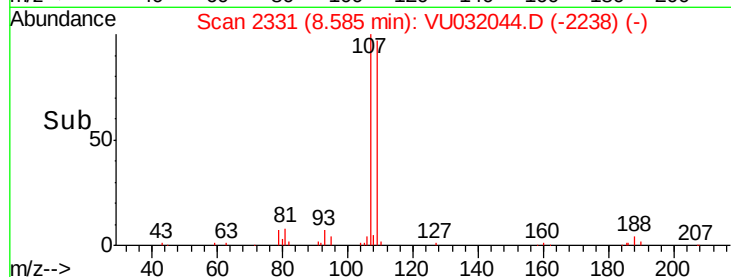
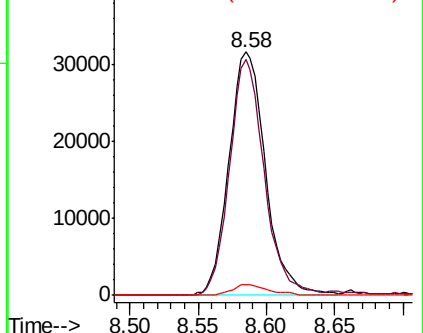
188 4.4 3.5 5.3



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 4.923 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU032044.D

Acq: 16 May 2019 13:04

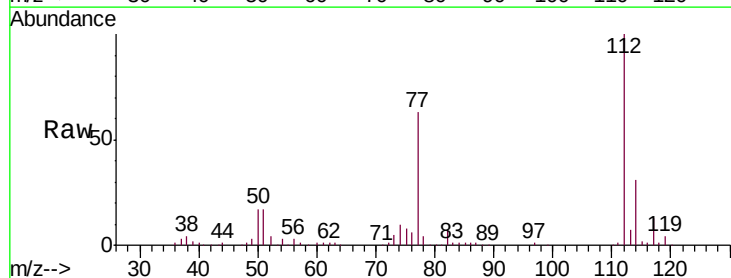
Tgt Ion:112 Resp: 222238

Ion Ratio Lower Upper

112 100

114 30.9 21.6 40.2

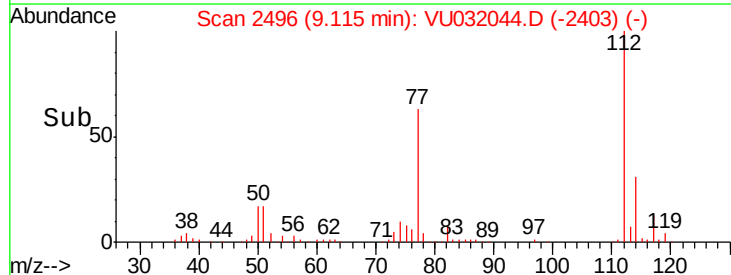
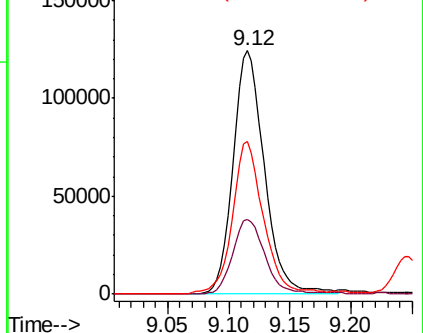
77 62.9 50.3 75.5

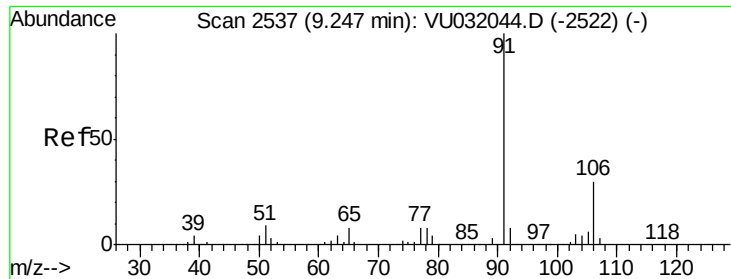


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 4.921 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU032044.D

Acq: 16 May 2019 13:04

Instrument :

MSVOA_U

ClientSampleId :

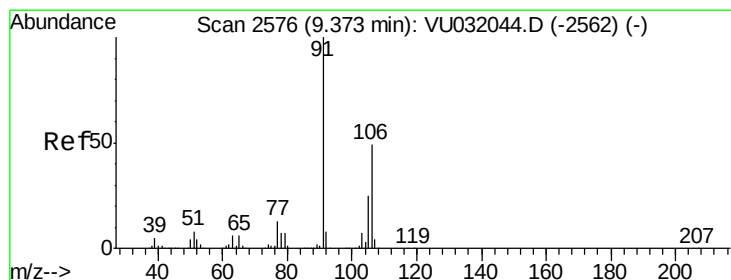
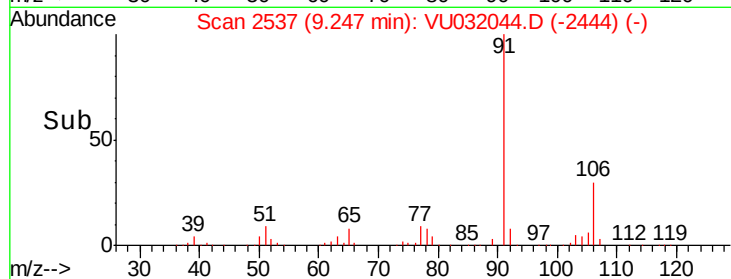
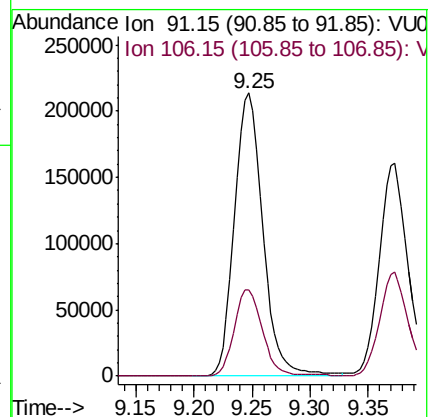
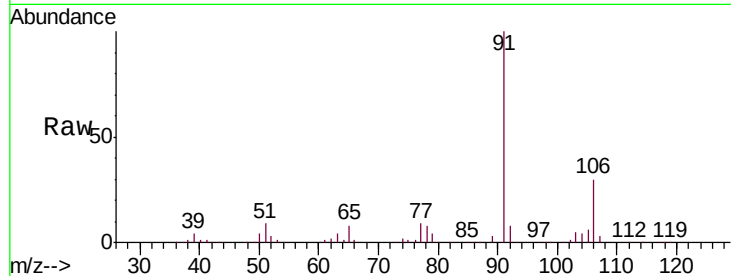
VSTD00508

Tgt Ion: 91 Resp: 363161

Ion Ratio Lower Upper

91 100

106 30.5 21.3 39.6



#53

m,p-Xylene

Concen: 4.957 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU032044.D

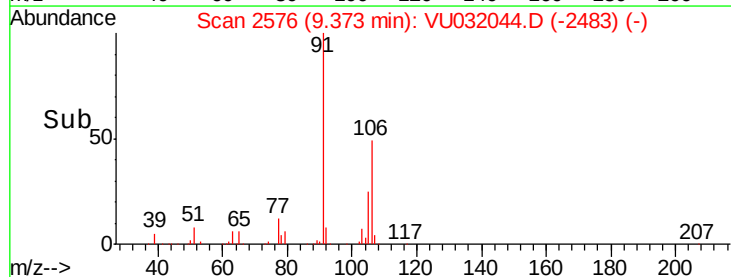
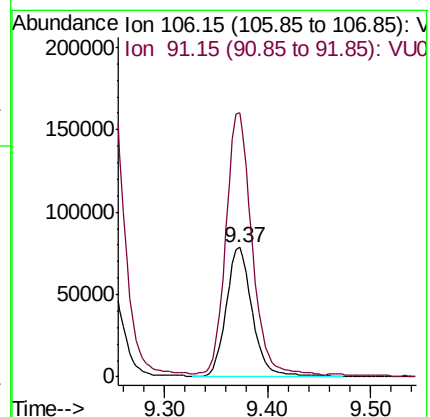
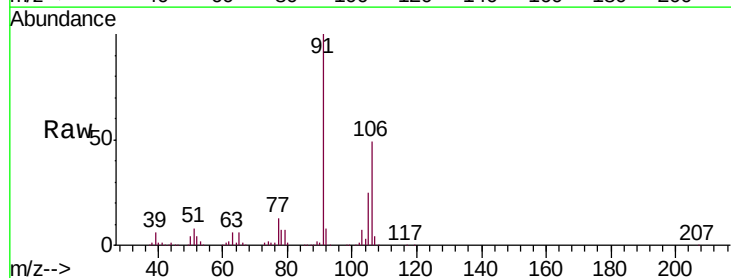
Acq: 16 May 2019 13:04

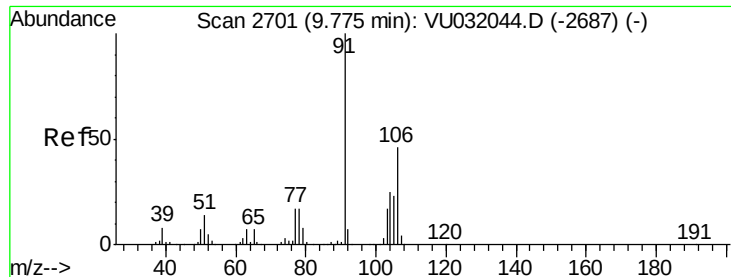
Tgt Ion: 106 Resp: 135096

Ion Ratio Lower Upper

106 100

91 204.5 143.1 265.9

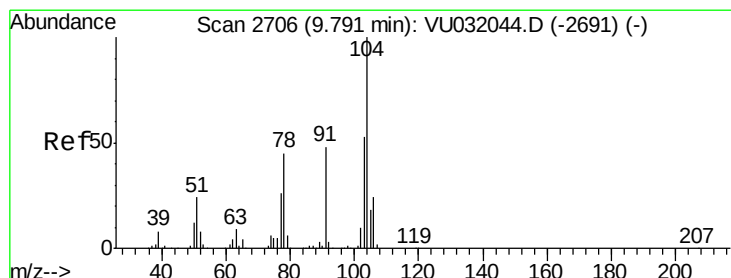
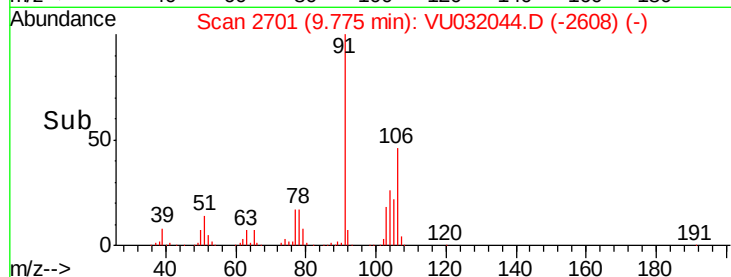
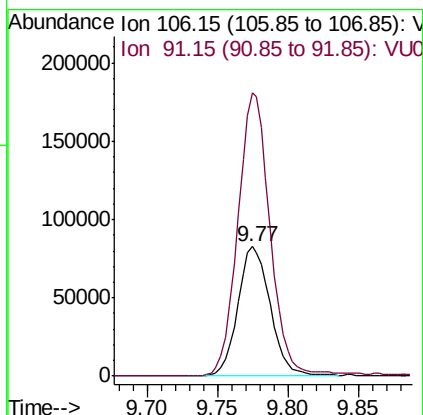
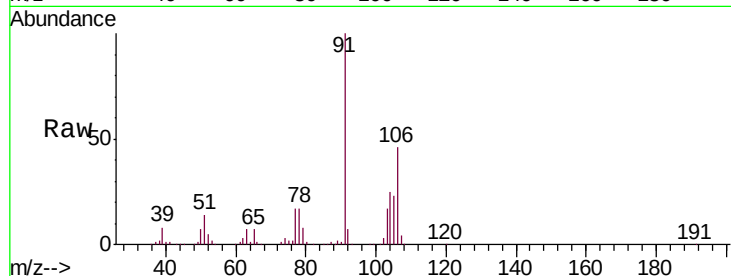




#54
o-Xylene
Concen: 5.055 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU032044.D
Acq: 16 May 2019 13:04

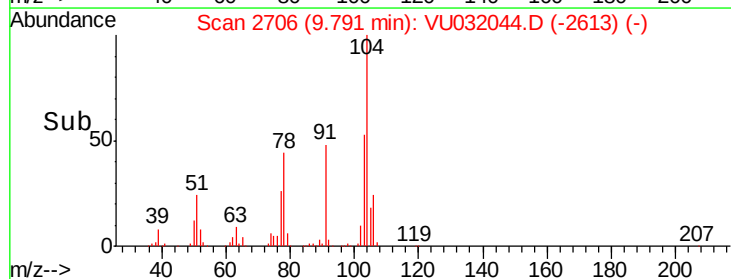
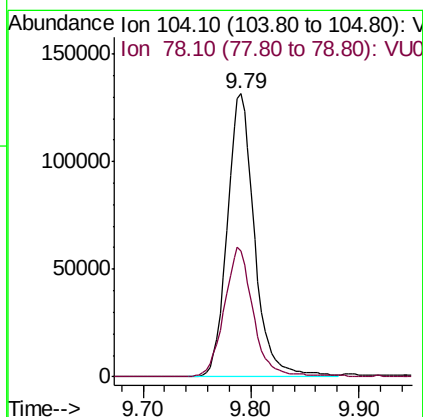
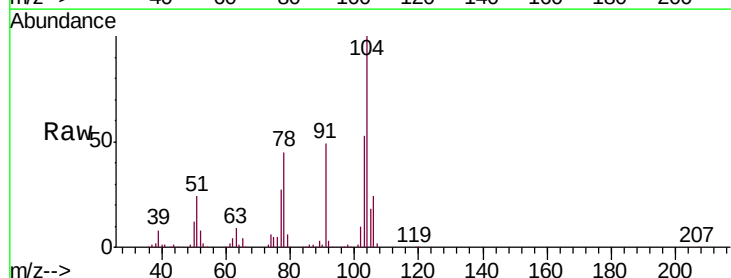
Instrument :
MSVOA_U
ClientSampleId :
VSTD00508

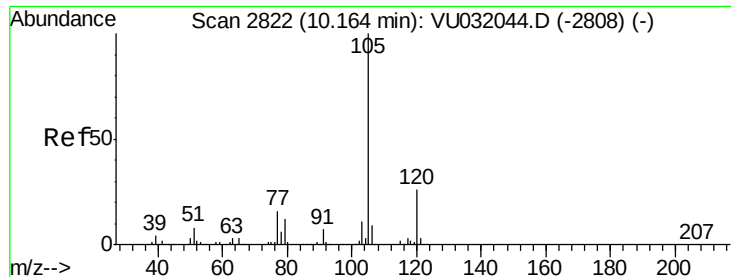
Tgt Ion:106 Resp: 134047
Ion Ratio Lower Upper
106 100
91 218.4 152.9 283.9



#55
Styrene
Concen: 5.380 ug/L
RT: 9.79 min Scan# 2706
Delta R.T. 0.00 min
Lab File: VU032044.D
Acq: 16 May 2019 13:04

Tgt Ion:104 Resp: 232004
Ion Ratio Lower Upper
104 100
78 44.6 31.2 58.0





#56

Isopropylbenzene

Concen: 5.152 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU032044.D

Acq: 16 May 2019 13:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00508

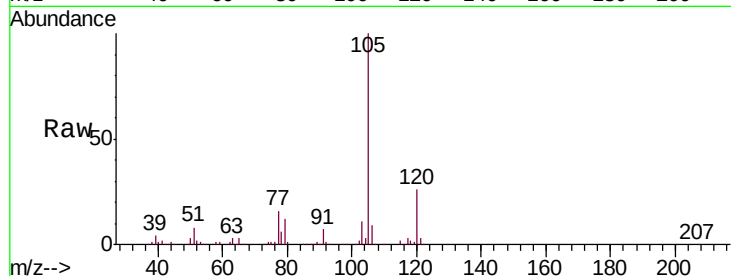
Tgt Ion: 105 Resp: 347119

Ion Ratio Lower Upper

105 100

120 25.9 20.7 31.1

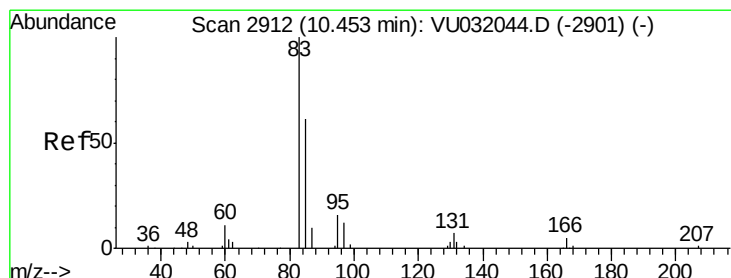
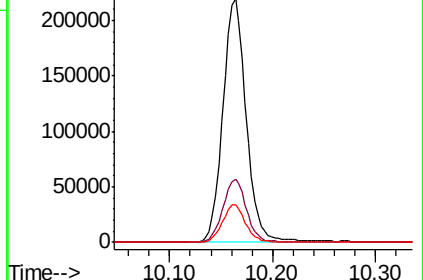
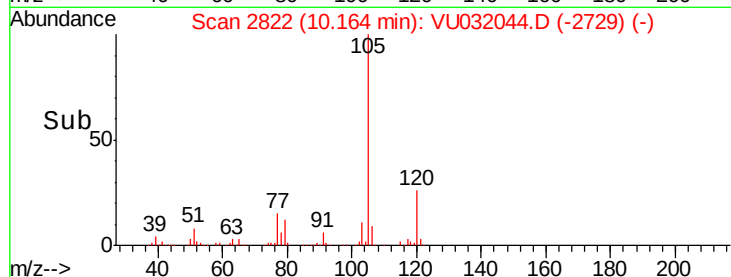
77 15.4 12.3 18.5



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.891 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032044.D

Acq: 16 May 2019 13:04

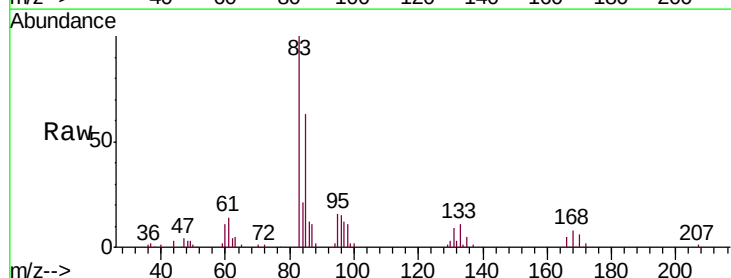
Tgt Ion: 83 Resp: 76225

Ion Ratio Lower Upper

83 100

85 63.3 44.3 82.3

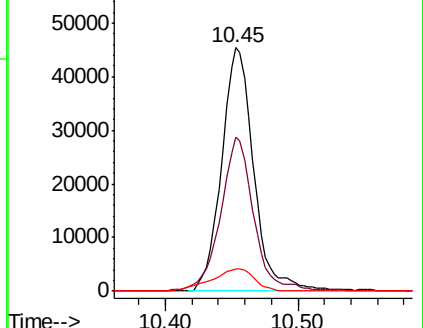
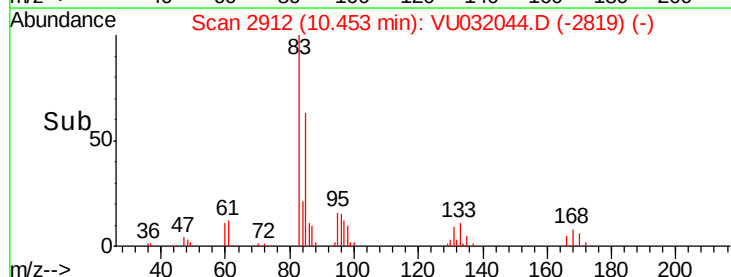
131 9.3 7.4 11.2

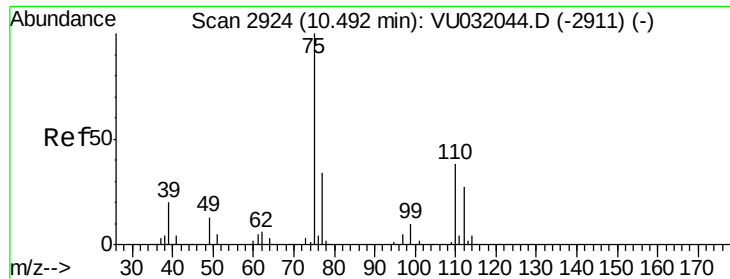


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

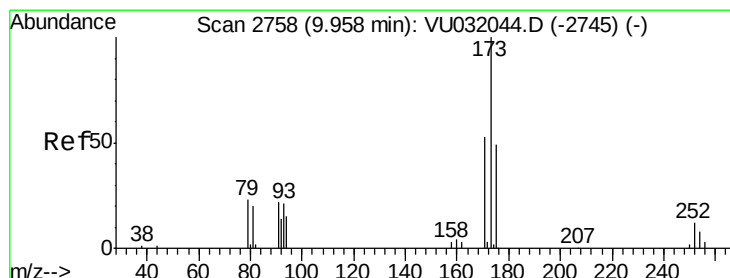
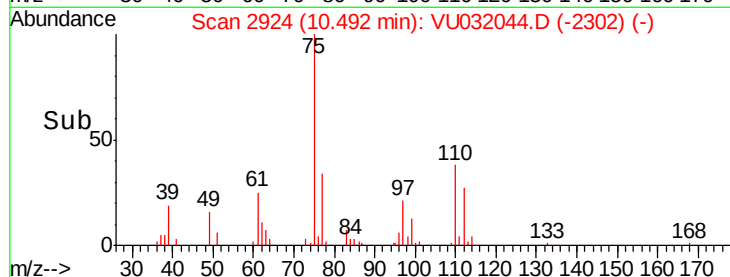
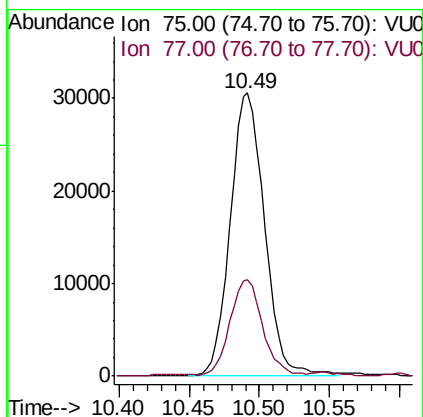
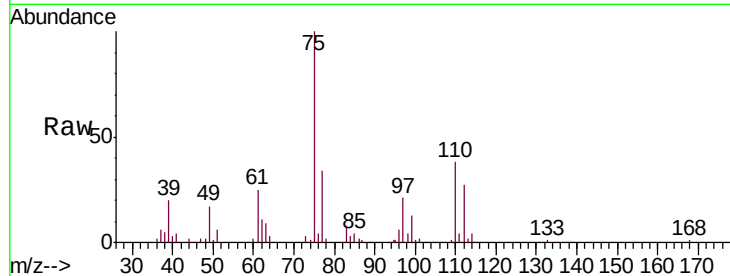




#59
 1,2,3-Trichloropropane
 Concen: 4.758 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU032044.D
 Acq: 16 May 2019 13:04

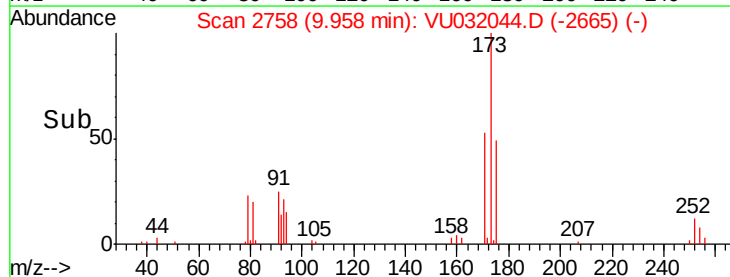
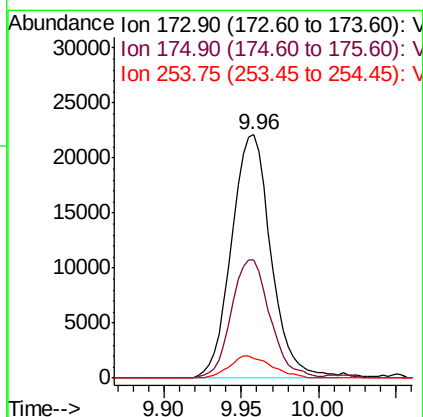
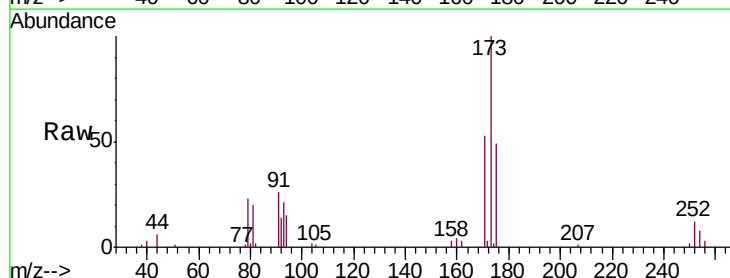
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00508

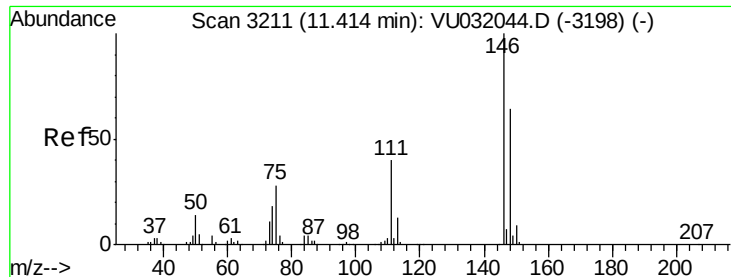
Tgt Ion: 75 Resp: 52161
 Ion Ratio Lower Upper
 75 100
 77 32.7 26.2 39.2



#61
 Bromoform
 Concen: 5.311 ug/L
 RT: 9.96 min Scan# 2758
 Delta R.T. 0.00 min
 Lab File: VU032044.D
 Acq: 16 May 2019 13:04

Tgt Ion: 173 Resp: 39224
 Ion Ratio Lower Upper
 173 100
 175 47.5 38.0 57.0
 254 9.7 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 5.026 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU032044.D

Acq: 16 May 2019 13:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00508

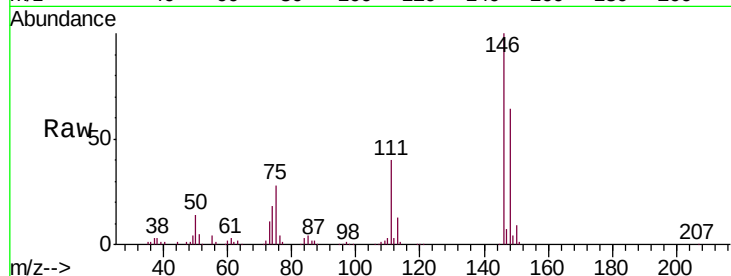
Tgt Ion:146 Resp: 160463

Ion Ratio Lower Upper

146 100

111 39.6 27.7 51.5

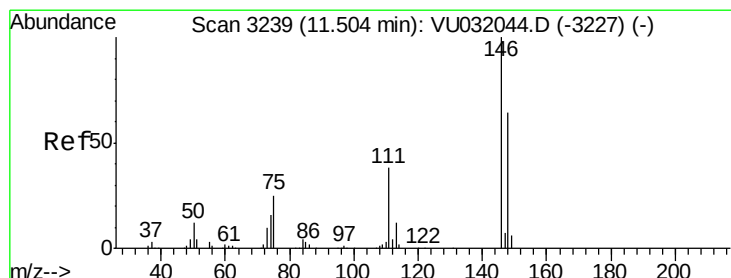
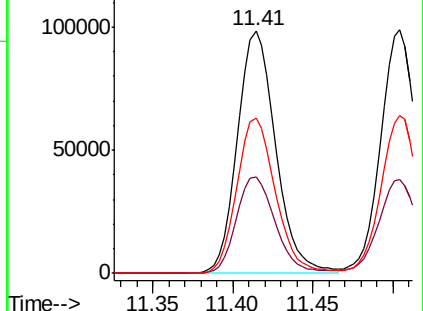
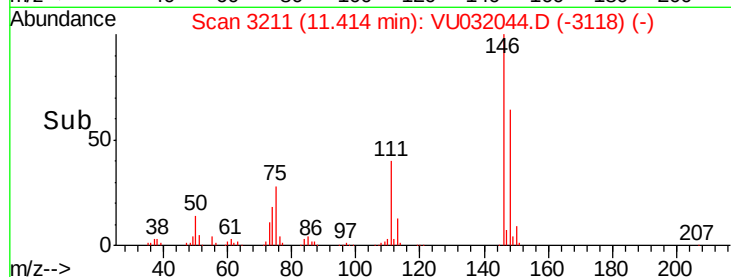
148 64.1 44.9 83.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 5.032 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU032044.D

Acq: 16 May 2019 13:04

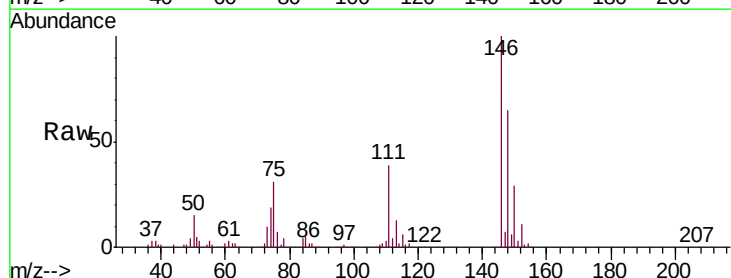
Tgt Ion:146 Resp: 163797

Ion Ratio Lower Upper

146 100

111 38.7 27.1 50.3

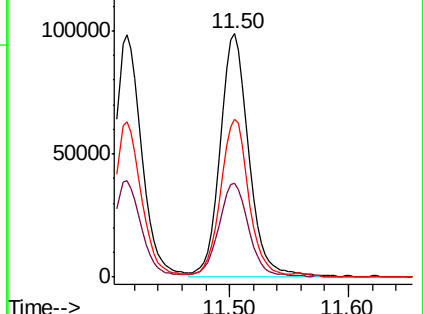
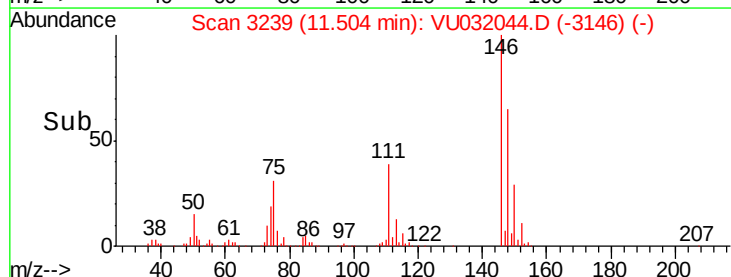
148 64.9 45.4 84.4

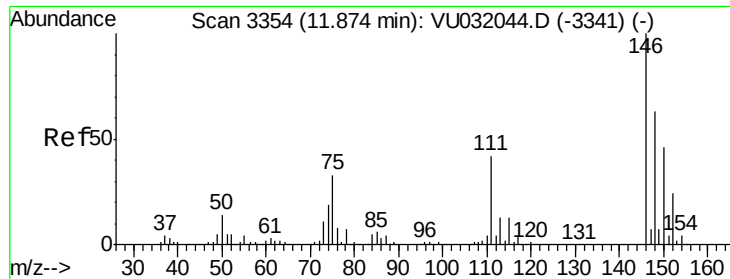


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

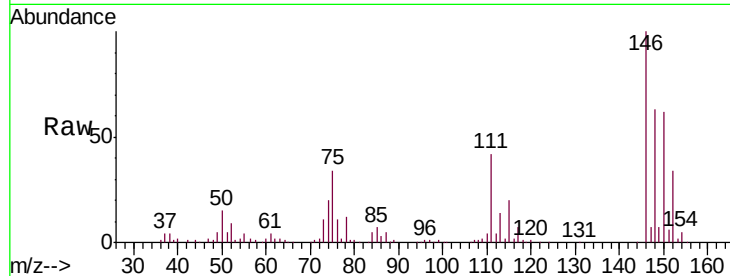




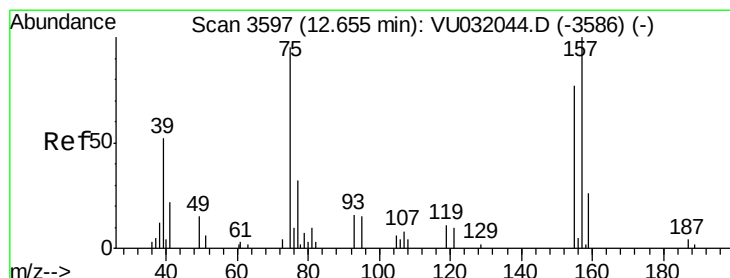
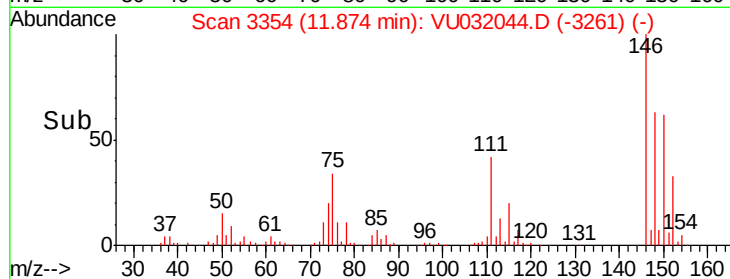
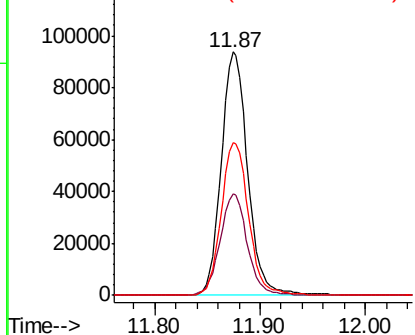
#65
 1,2-Dichlorobenzene
 Concen: 5.147 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU032044.D
 Acq: 16 May 2019 13:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00508

Tgt Ion: 146 Resp: 162767
 Ion Ratio Lower Upper
 146 100
 111 41.9 33.5 50.3
 148 62.8 50.2 75.4

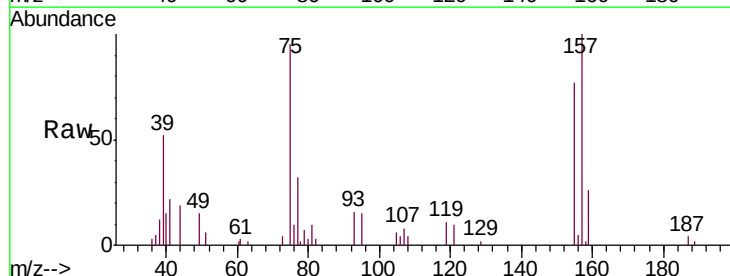


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

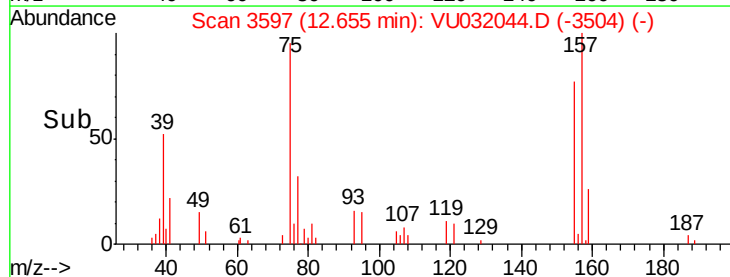
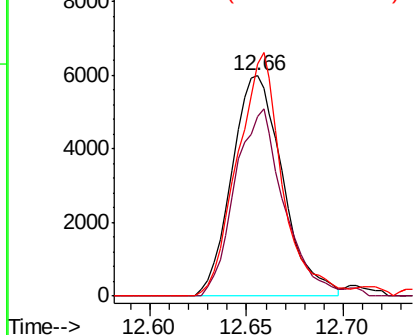


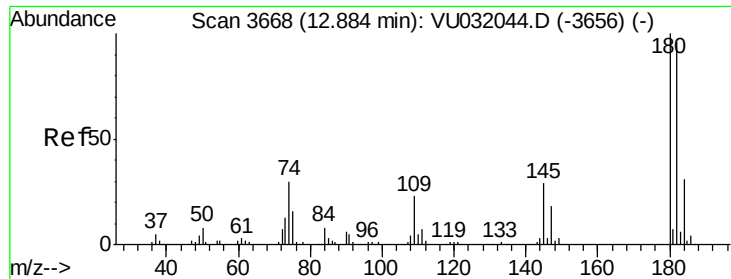
#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.965 ug/L
 RT: 12.66 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VU032044.D
 Acq: 16 May 2019 13:04

Tgt Ion: 75 Resp: 10935
 Ion Ratio Lower Upper
 75 100
 155 81.3 65.0 97.6
 157 105.4 84.3 126.5



Abundance Ion 75.05 (74.75 to 75.75): VUO
 Ion 154.95 (154.65 to 155.65): V
 Ion 156.90 (156.60 to 157.60): V

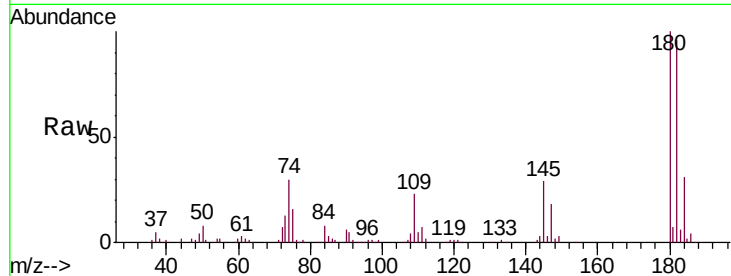




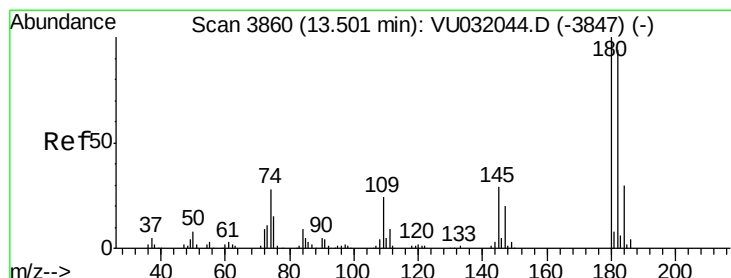
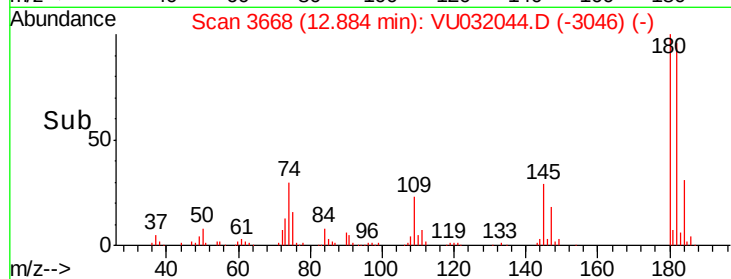
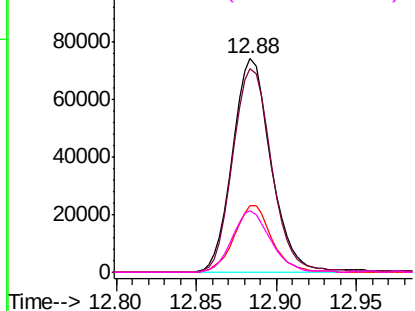
#67
 1,3,5-Trichlorobenzene
 Concen: 5.233 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU032044.D
 Acq: 16 May 2019 13:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00508

Tgt Ion:	180	Resp:	120901
Ion	Ratio	Lower	Upper
180	100		
182	96.6	77.3	115.9
184	30.6	24.5	36.7
145	29.0	23.2	34.8

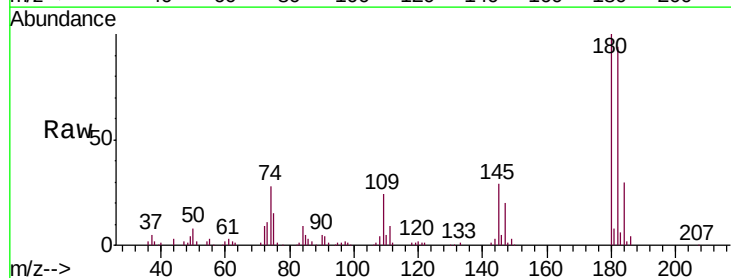


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

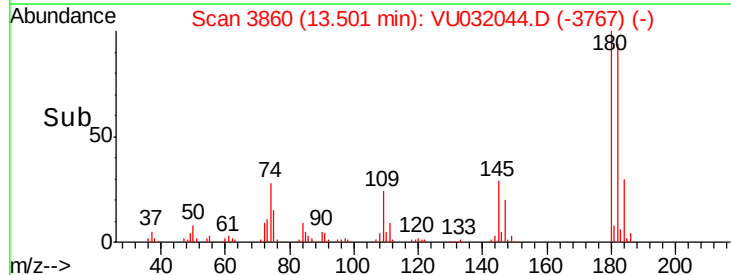
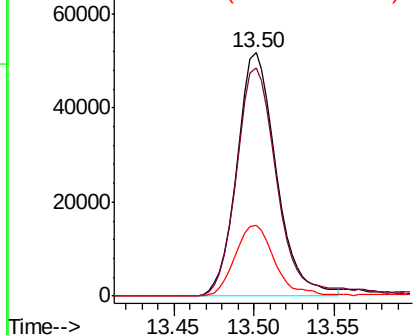


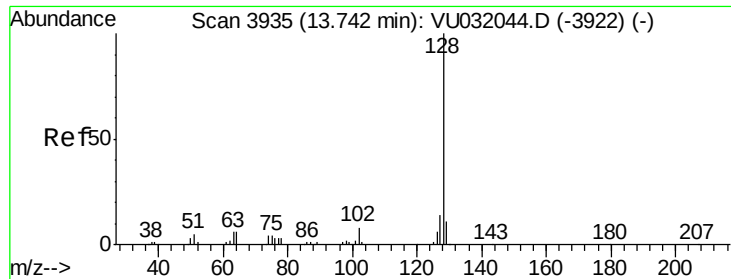
#68
 1,2,4-trichlorobenzene
 Concen: 5.463 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU032044.D
 Acq: 16 May 2019 13:04

Tgt Ion:	180	Resp:	86664
Ion	Ratio	Lower	Upper
180	100		
182	98.0	78.4	117.6
145	29.4	23.5	35.3



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.758 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU032044.D

Acq: 16 May 2019 13:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00508

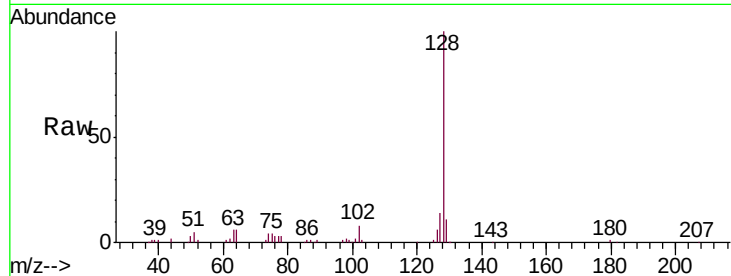
Tgt Ion:128 Resp: 126847

Ion Ratio Lower Upper

128 100

129 10.0 8.0 12.0

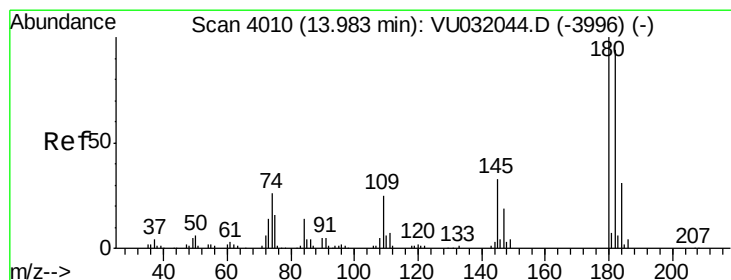
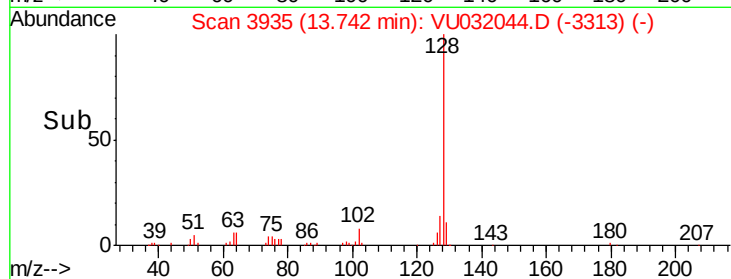
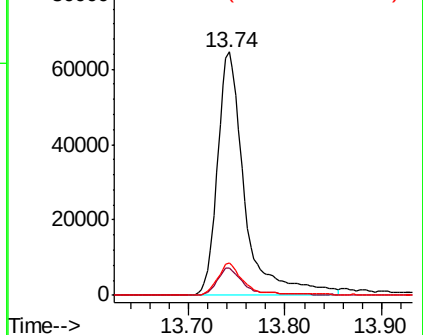
127 12.6 10.1 15.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.342 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU032044.D

Acq: 16 May 2019 13:04

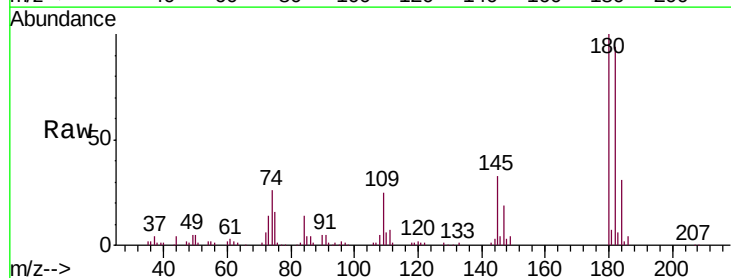
Tgt Ion:180 Resp: 86531

Ion Ratio Lower Upper

180 100

182 94.1 75.3 112.9

145 31.5 25.2 37.8



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

