

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071718\
 Data File : VU025483.D
 Acq On : 18 Jul 2018 01:58
 Operator : MD/SY
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Quant Time: Jul 18 06:49:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071718WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jul 18 06:47:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	349651	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	324421	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	168375	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	74926	45.44	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.88%
7) Chloroethane-d5	1.68	69	66131	47.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	94.16%
11) 1,1-Dichloroethene-d2	2.28	63	176037	48.62	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.24%
21) 2-Butanone-d5	4.18	46	157948	90.02	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	90.02%
24) Chloroform-d	4.65	84	208815	48.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.64%
26) 1,2-Dichloroethane-d4	5.31	65	138739	47.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.32%
32) Benzene-d6	5.35	84	378077	48.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.44%
36) 1,2-Dichloropropane-d6	6.34	67	126819	48.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.70%
41) Toluene-d8	7.57	98	363424	47.89	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.78%
43) trans-1,3-Dichloropropene-	7.85	79	61575	45.56	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.12%
47) 2-Hexanone-d5	8.31	63	115739	85.99	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	85.99%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	184963	47.98	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.96%
64) 1,2-Dichlorobenzene-d4	11.86	152	163235	48.38	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.76%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	134919	46.902 ug/L	99
3) Chloromethane	1.33	50	115592	45.408 ug/L	100
5) Vinyl chloride	1.41	62	119643	46.743 ug/L	100
6) Bromomethane	1.63	94	56313	40.367 ug/L	99
8) Chloroethane	1.70	64	71776	46.859 ug/L	99
9) Trichlorofluoromethane	1.89	101	180373	47.935 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	102699	50.268 ug/L	98
12) 1,1-Dichloroethene	2.29	96	93741	49.463 ug/L	97
13) Acetone	2.32	43	105654	68.956 ug/L	99
14) Carbon disulfide	2.48	76	276004	45.070 ug/L	99
15) Methyl Acetate	2.62	43	120657	42.611 ug/L	99
16) Methylene chloride	2.71	84	117593	47.447 ug/L	98
17) trans-1,2-Dichloroethene	2.99	96	106811	47.648 ug/L	98
18) Methyl tert-butyl Ether	3.00	73	372057	46.842 ug/L	100
19) 1,1-Dichloroethane	3.45	63	210477	46.937 ug/L	100
20) cis-1,2-Dichloroethene	4.23	96	126492	46.088 ug/L	97
22) 2-Butanone	4.27	43	169985	80.601 ug/L	99

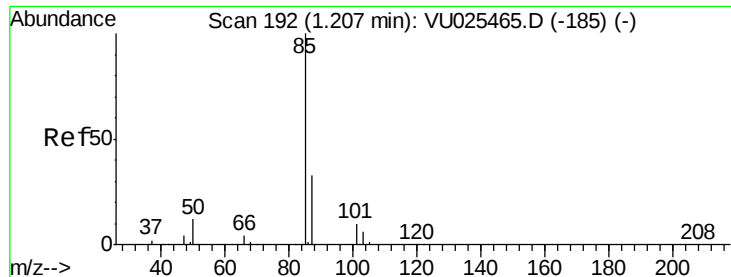
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071718\
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 Quant Title : VOC Analysis
 QLast Update : Wed Jul 18 06:47:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	67833	49.311	ug/L	98
25) Chloroform	4.68	83	223738	47.483	ug/L	98
27) 1,2-Dichloroethane	5.41	62	183009	46.769	ug/L	99
29) Cyclohexane	5.00	56	177836	47.602	ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	201721	46.724	ug/L	99
31) Carbon tetrachloride	5.14	117	180974	47.716	ug/L	99
33) Benzene	5.39	78	450328	46.920	ug/L	100
34) Trichloroethene	6.19	95	120582	47.460	ug/L	99
35) Methylcyclohexane	6.42	83	188517	48.871	ug/L	98
37) 1,2-Dichloropropane	6.44	63	125241	47.303	ug/L	99
38) Bromodichloromethane	6.76	83	168431	47.115	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	191850	46.767	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	332230	86.521	ug/L	100
42) Toluene	7.64	91	496244	48.491	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	183066	46.486	ug/L	98
45) 1,1,2-Trichloroethane	8.07	97	120976	48.193	ug/L	98
46) Tetrachloroethene	8.23	164	102358	48.294	ug/L	96
48) 2-Hexanone	8.36	43	250885	81.778	ug/L	99
49) Dibromochloromethane	8.48	129	143143	47.105	ug/L	97
50) 1,2-Dibromoethane	8.59	107	131470	47.450	ug/L	100
51) Chlorobenzene	9.12	112	330357	48.110	ug/L	99
52) Ethylbenzene	9.25	91	551749	48.299	ug/L	100
53) m,p-Xylene	9.38	106	211542	48.314	ug/L	96
54) o-xylene	9.78	106	216781	49.077	ug/L	94
55) Styrene	9.80	104	358372	49.122	ug/L	99
56) Isopropylbenzene	10.17	105	561104	49.051	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	195293	45.188	ug/L	100
59) 1,2,3-Trichloropropane	10.50	75	156996	44.590	ug/L	99
61) Bromoform	9.96	173	104488	43.993	ug/L	100
62) 1,3-Dichlorobenzene	11.42	146	261818	46.917	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	262624	46.569	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	275999	46.838	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	43520	39.466	ug/L	96
67) 1,3,5-Trichlorobenzene	12.89	180	203943	47.546	ug/L	98
68) 1,2,4-trichlorobenzene	13.51	180	179943	47.046	ug/L	100
69) Naphthalene	13.74	128	582840	44.040	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	190572	46.198	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 46.902 ug/L

RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

Instrument :

MSVOA_U

ClientSampleId :

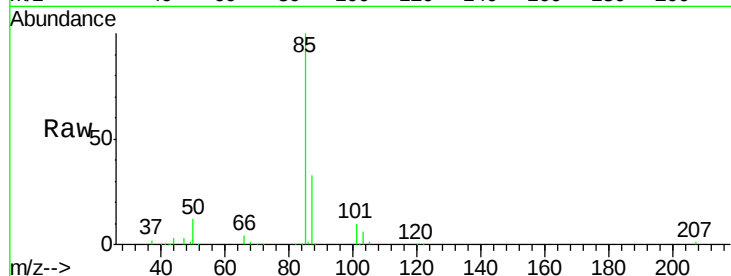
VSTD05048

Tgt Ion: 85 Resp: 134919

Ion Ratio Lower Upper

85 100

87 32.8 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU025465.D (-185) (-)

Ion 87.00 (86.70 to 87.70): VU025483.D (-99) (-)

1.21

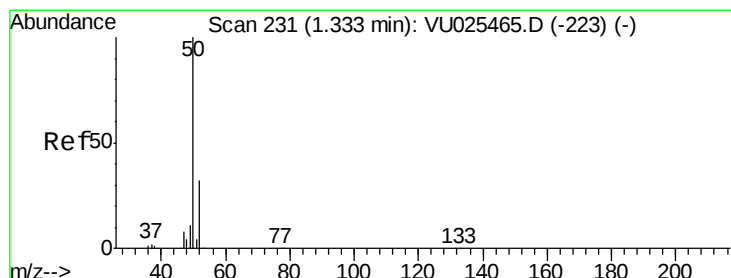
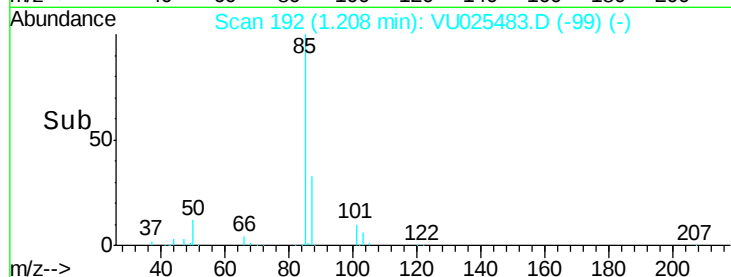
150000

100000

50000

0

Time--> 1.15 1.20 1.25



#3

Chloromethane

Concen: 45.408 ug/L

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU025483.D

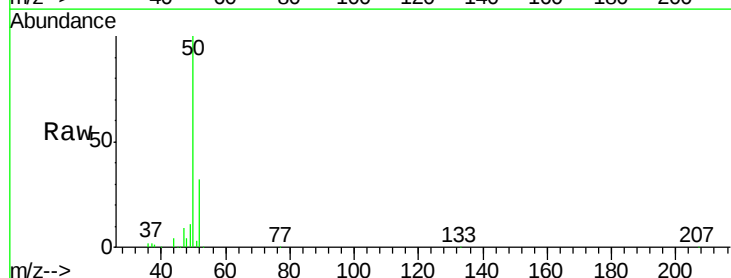
Acq: 18 Jul 2018 01:58

Tgt Ion: 50 Resp: 115592

Ion Ratio Lower Upper

50 100

52 31.7 22.4 41.6



Abundance Ion 50.00 (49.70 to 50.70): VU025465.D (-223) (-)

Ion 52.00 (51.70 to 52.70): VU025483.D (-138) (-)

1.33

120000

100000

80000

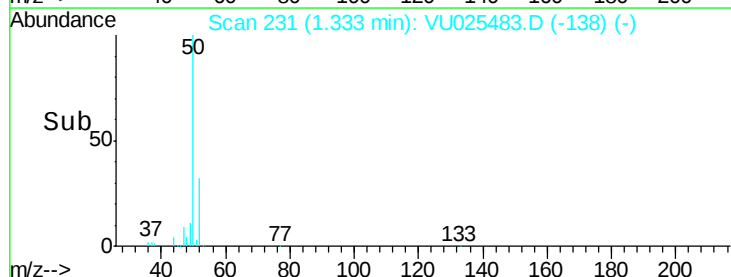
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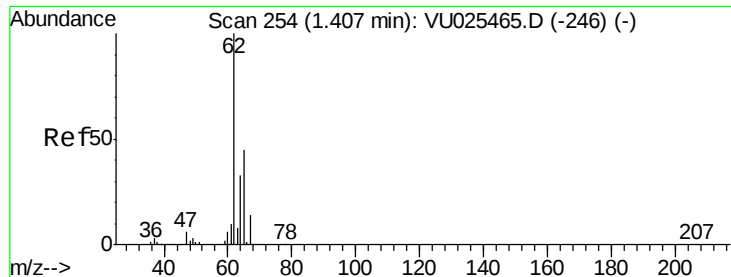
40000

20000

0

Time--> 1.30 1.35 1.40





#5

Vinyl chloride

Concen: 46.743 ug/L

RT: 1.41 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

Instrument :

MSVOA_U

ClientSampleId :

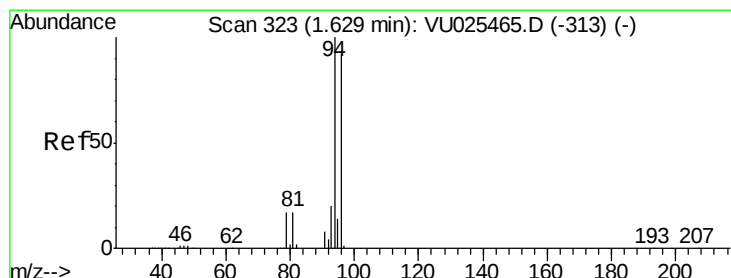
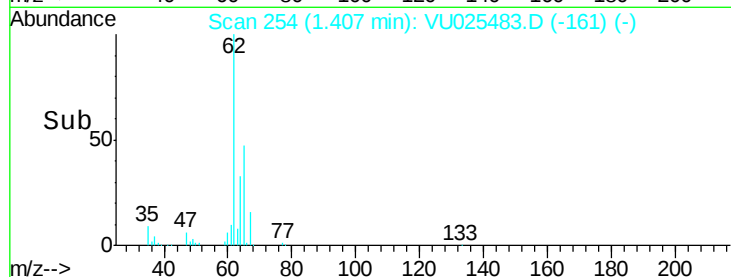
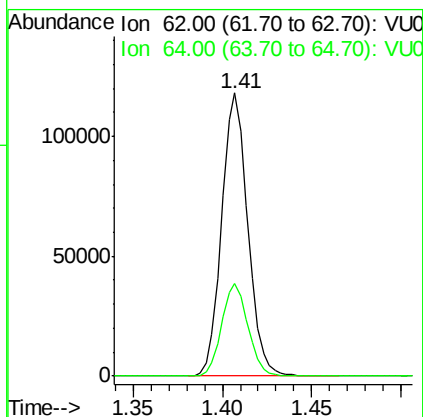
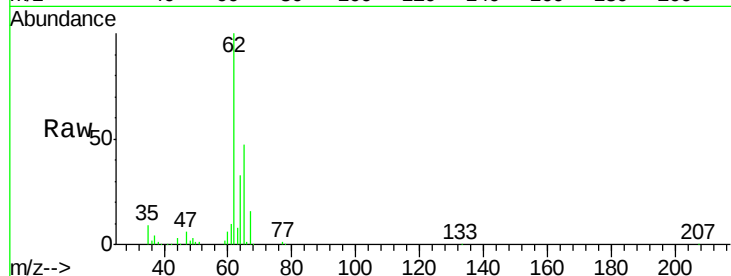
VSTD05048

Tgt Ion: 62 Resp: 119643

Ion Ratio Lower Upper

62 100

64 32.6 22.7 42.1



#6

Bromomethane

Concen: 40.367 ug/L

RT: 1.63 min Scan# 323

Delta R.T. 0.00 min

Lab File: VU025483.D

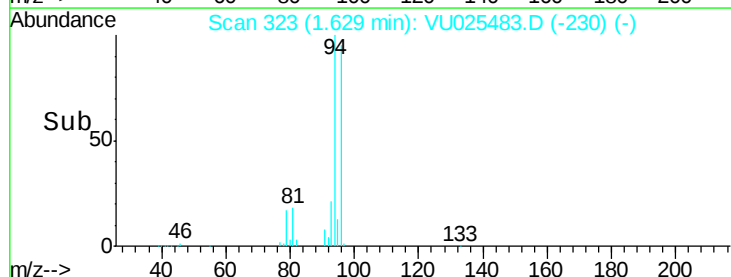
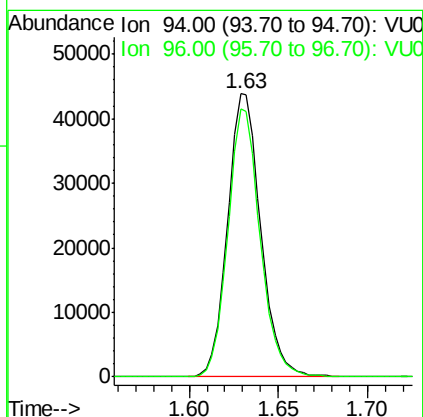
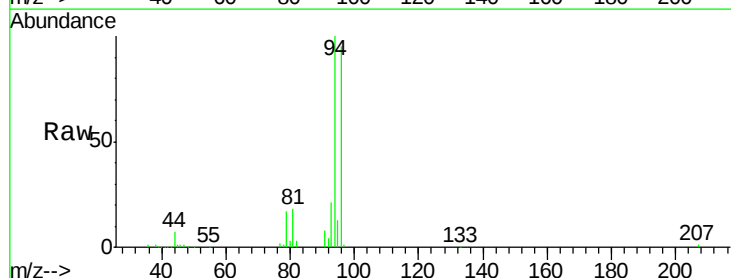
Acq: 18 Jul 2018 01:58

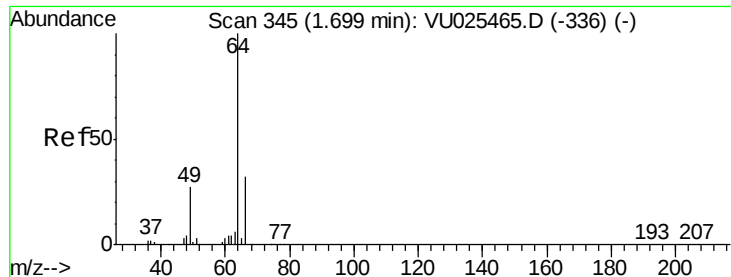
Tgt Ion: 94 Resp: 56313

Ion Ratio Lower Upper

94 100

96 94.7 65.8 122.2





#8

Chloroethane

Concen: 46.859 ug/L

RT: 1.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

Instrument :

MSVOA_U

ClientSampleId :

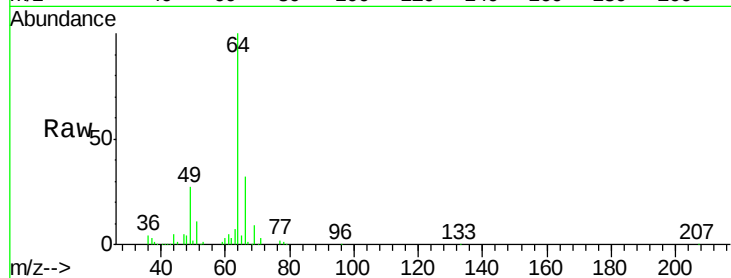
VSTD05048

Tgt Ion: 64 Resp: 71776

Ion Ratio Lower Upper

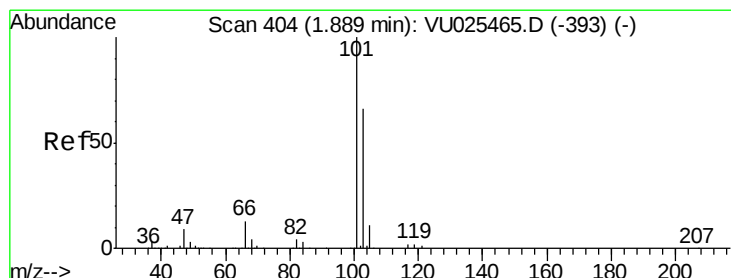
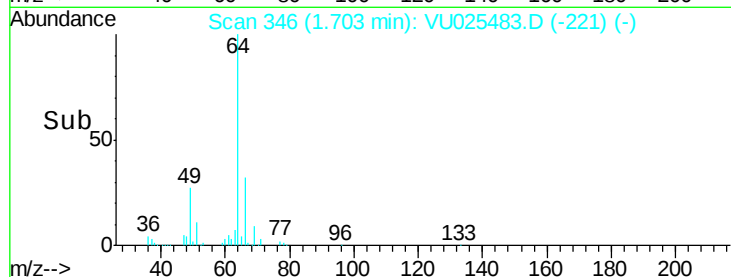
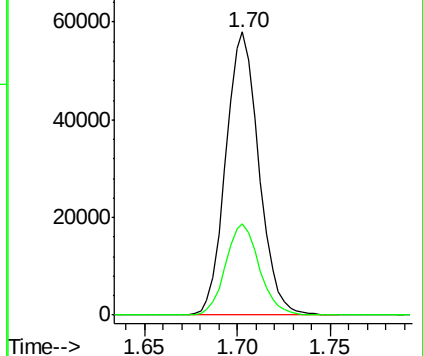
64 100

66 32.2 23.0 42.8



Abundance Ion 64.00 (63.70 to 64.70): VU025465.D (-336) (-)

Ion 66.00 (65.70 to 66.70): VU025465.D (-336) (-)



#9

Trichlorofluoromethane

Concen: 47.935 ug/L

RT: 1.89 min Scan# 404

Delta R.T. 0.00 min

Lab File: VU025483.D

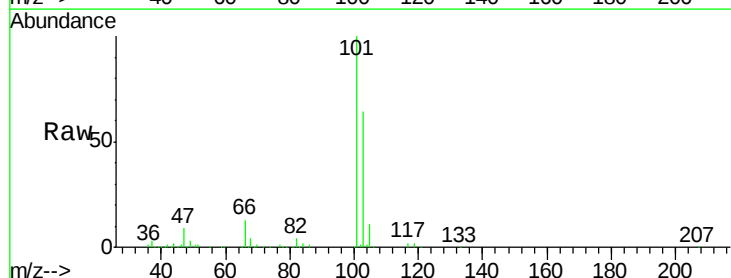
Acq: 18 Jul 2018 01:58

Tgt Ion: 101 Resp: 180373

Ion Ratio Lower Upper

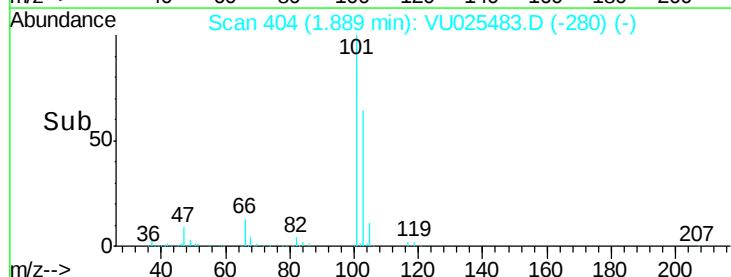
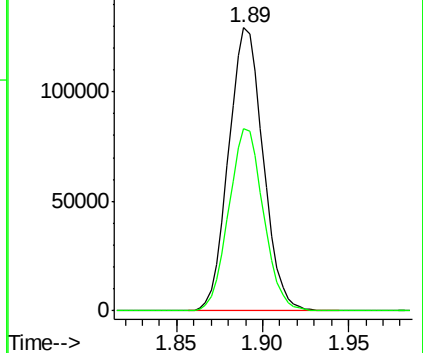
101 100

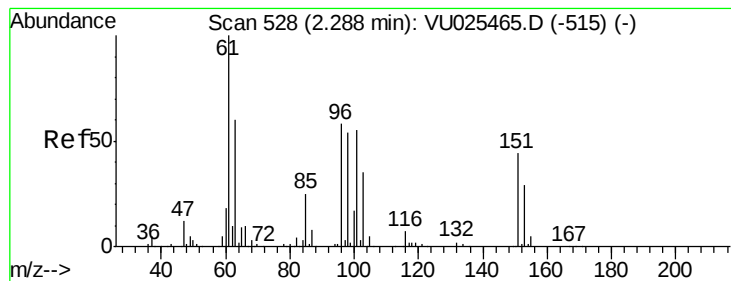
103 64.7 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): VU025465.D (-393) (-)

Ion 103.00 (102.70 to 103.70): VU025465.D (-393) (-)





#10

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

Concen: 50.268 ug/L

RT: 2.29 min Scan# 529

Delta R.T. 0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

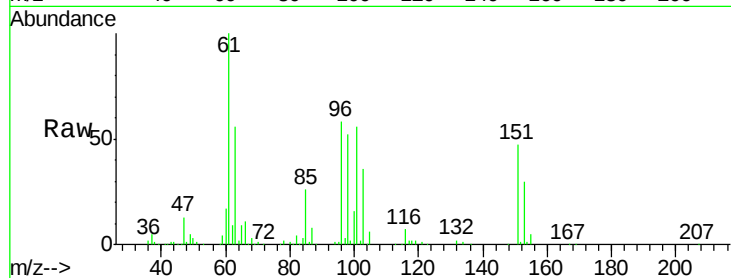
Tgt Ion: 101 Resp: 102699

Ion Ratio Lower Upper

101 100

85 44.6 35.4 53.2

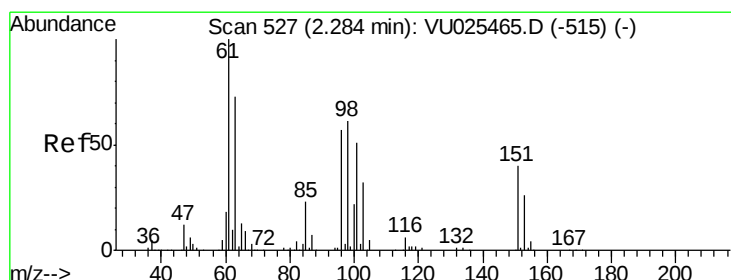
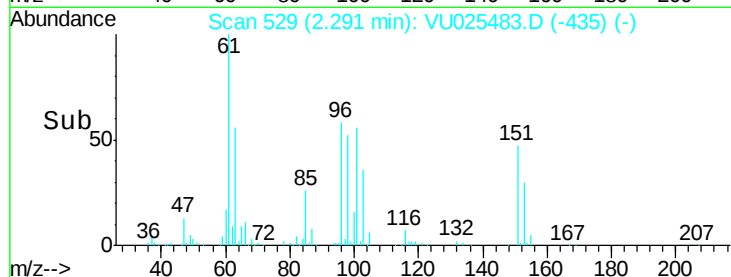
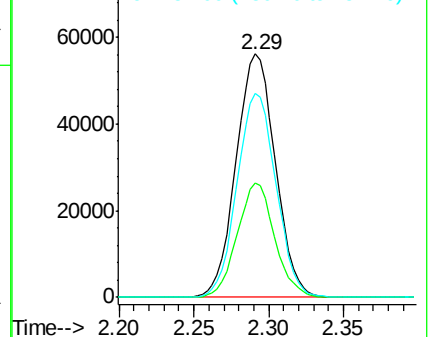
151 83.1 65.0 97.4



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: 49.463 ug/L

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

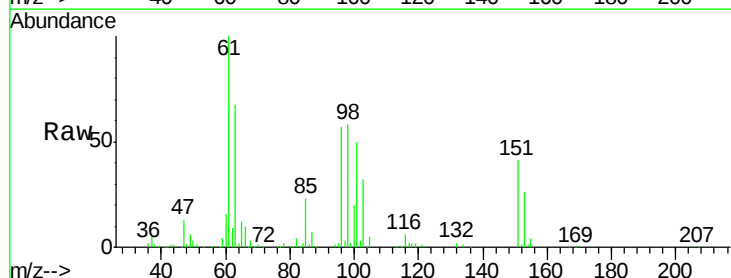
Tgt Ion: 96 Resp: 93741

Ion Ratio Lower Upper

96 100

61 176.7 120.6 224.0

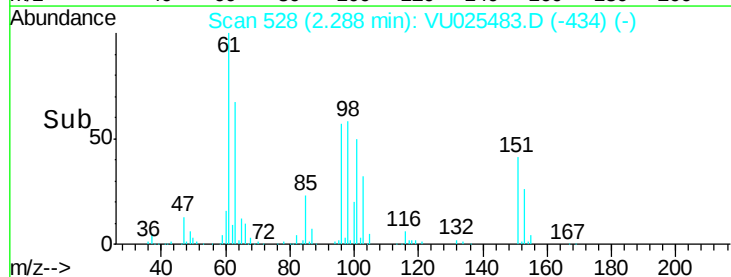
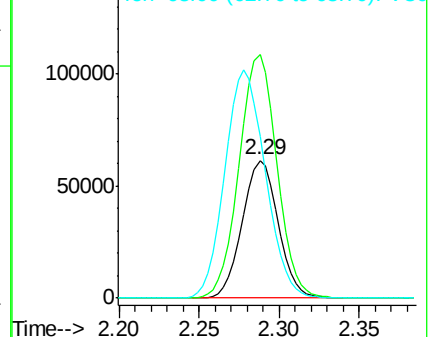
63 117.6 79.3 147.3

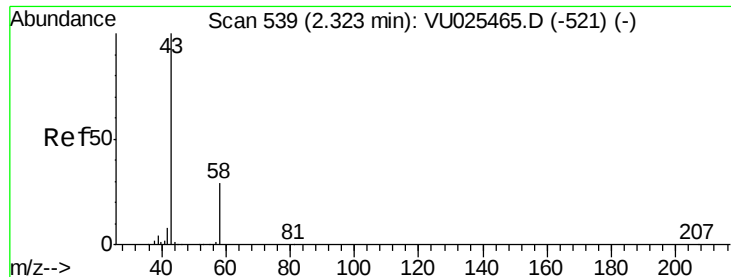


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 68.956 ug/L

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

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ClientSampleId :

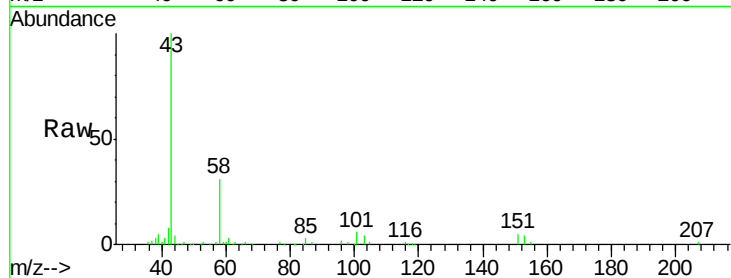
VSTD05048

Tgt Ion: 43 Resp: 105654

Ion Ratio Lower Upper

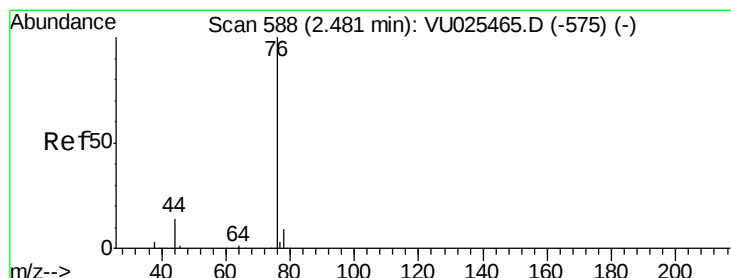
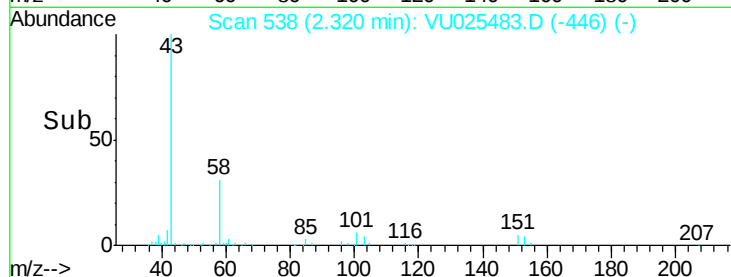
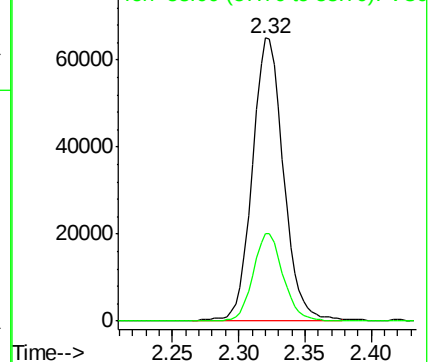
43 100

58 30.1 0.0 59.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 45.070 ug/L

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU025483.D

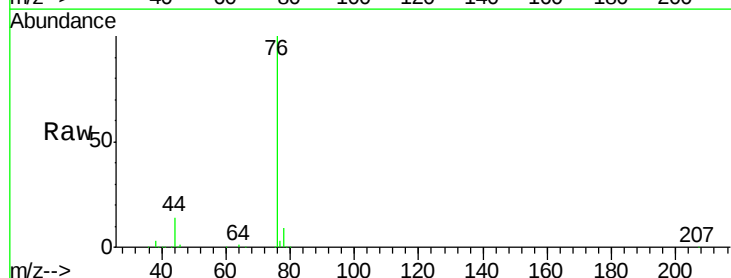
Acq: 18 Jul 2018 01:58

Tgt Ion: 76 Resp: 276004

Ion Ratio Lower Upper

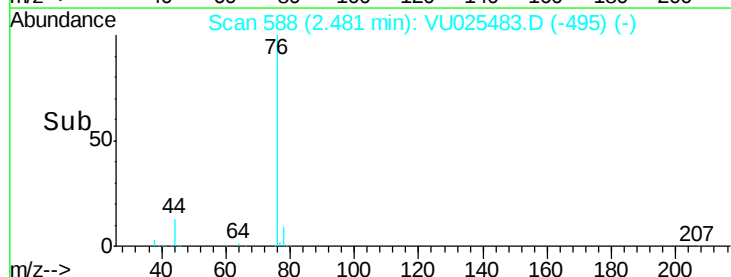
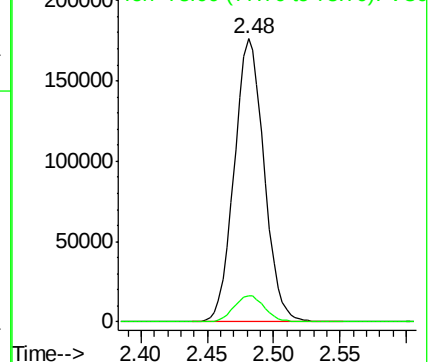
76 100

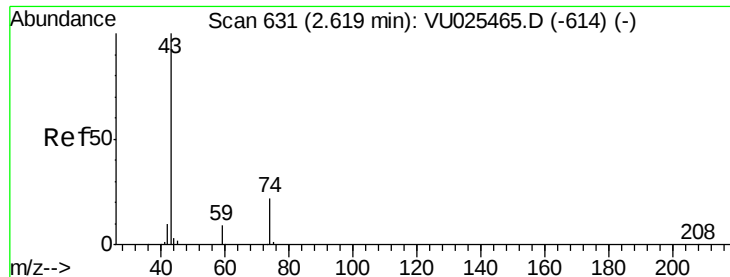
78 9.4 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

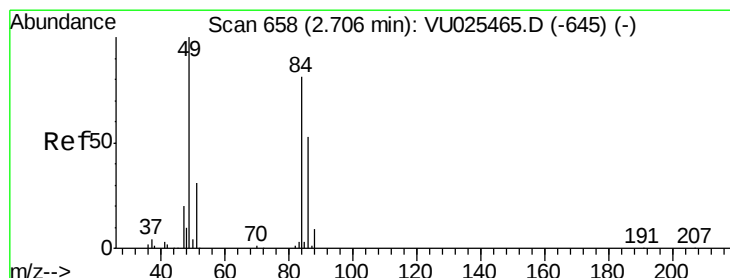
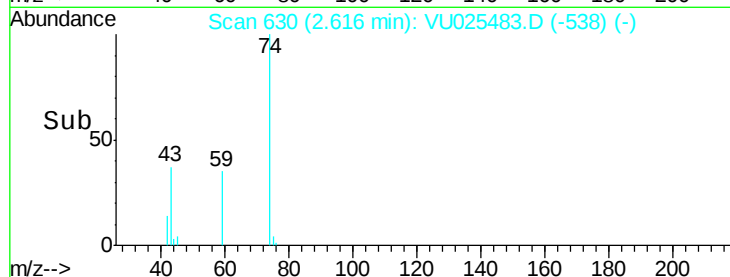
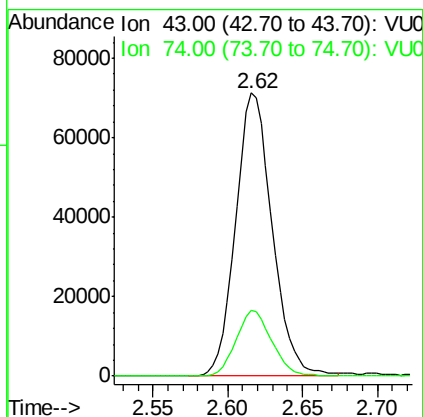
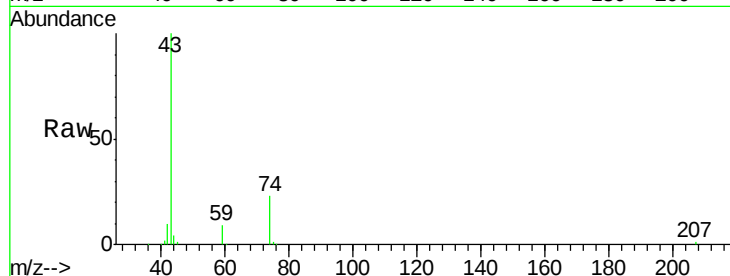




#15
Methyl Acetate
Concen: 42.611 ug/L
RT: 2.62 min Scan# 630
Delta R.T. -0.00 min
Lab File: VU025483.D
Acq: 18 Jul 2018 01:58

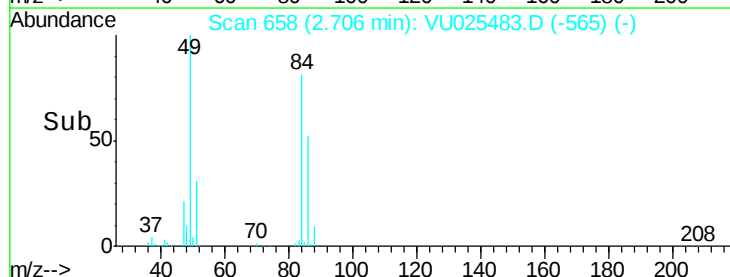
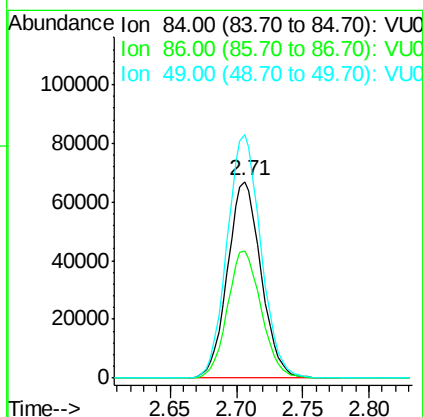
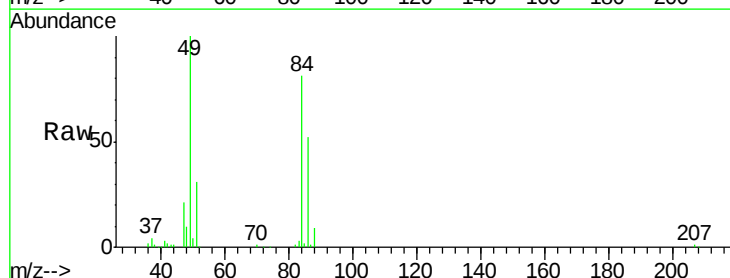
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

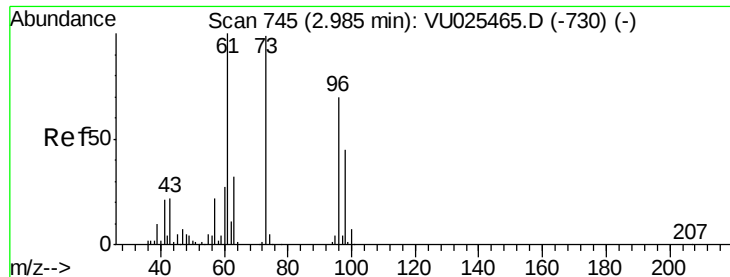
Tgt Ion: 43 Resp: 120657
Ion Ratio Lower Upper
43 100
74 22.8 17.8 26.8



#16
Methylene chloride
Concen: 47.447 ug/L
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU025483.D
Acq: 18 Jul 2018 01:58

Tgt Ion: 84 Resp: 117593
Ion Ratio Lower Upper
84 100
86 64.5 46.3 85.9
49 123.7 87.9 163.3





#17

trans-1,2-Dichloroethene

Concen: 47.648 ug/L

RT: 2.99 min Scan# 746

Delta R.T. 0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

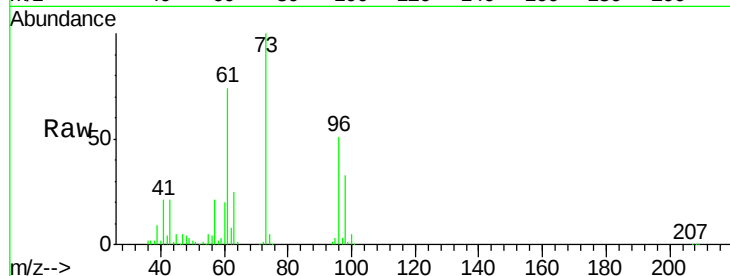
Tgt Ion: 96 Resp: 106811

Ion Ratio Lower Upper

96 100

61 144.5 103.6 192.4

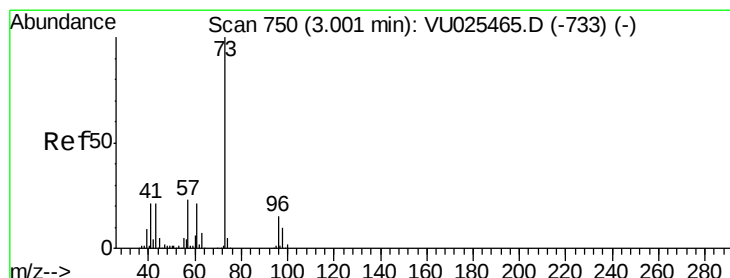
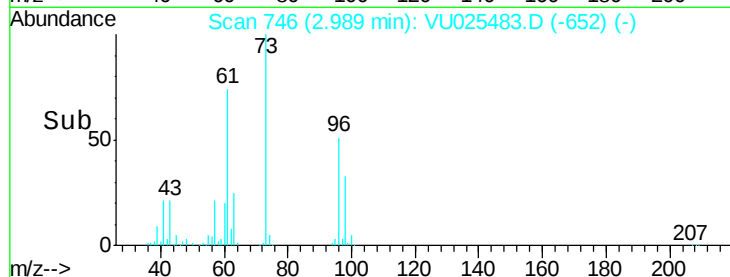
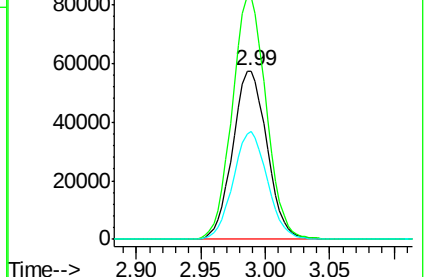
98 64.1 44.8 83.2



Abundance Ion 96.00 (95.70 to 96.70): VU025483.D (-652) (-)

Ion 61.00 (60.70 to 61.70): VU025483.D (-652) (-)

Ion 98.00 (97.70 to 98.70): VU025483.D (-652) (-)



#18

Methyl tert-butyl Ether

Concen: 46.842 ug/L

RT: 3.00 min Scan# 750

Delta R.T. 0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

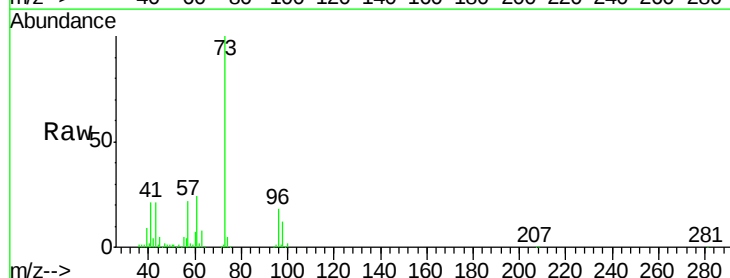
Tgt Ion: 73 Resp: 372057

Ion Ratio Lower Upper

73 100

43 20.7 16.6 24.8

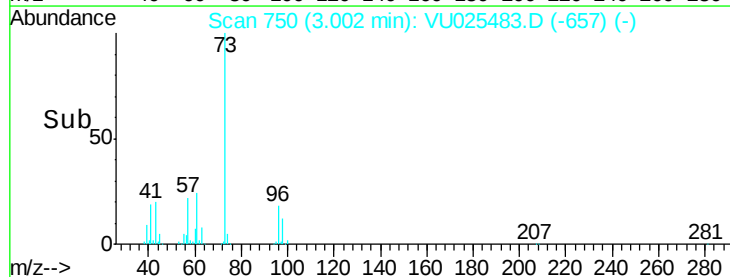
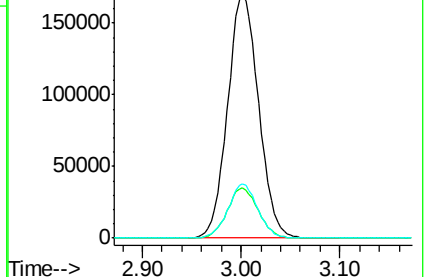
57 21.5 17.0 25.6

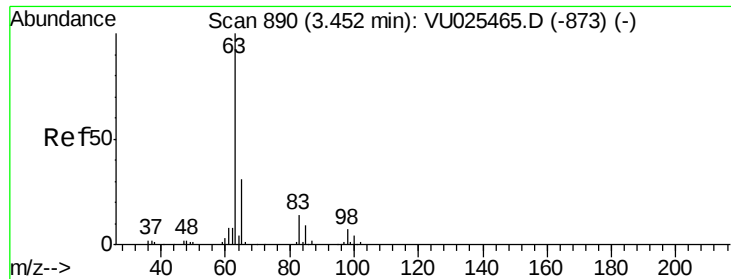


Abundance Ion 73.00 (72.70 to 73.70): VU025483.D (-657) (-)

Ion 43.00 (42.70 to 43.70): VU025483.D (-657) (-)

Ion 57.00 (56.70 to 57.70): VU025483.D (-657) (-)

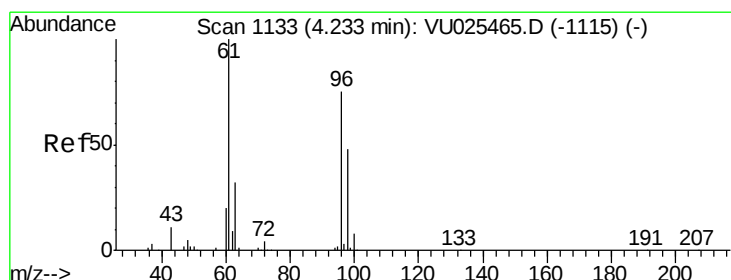
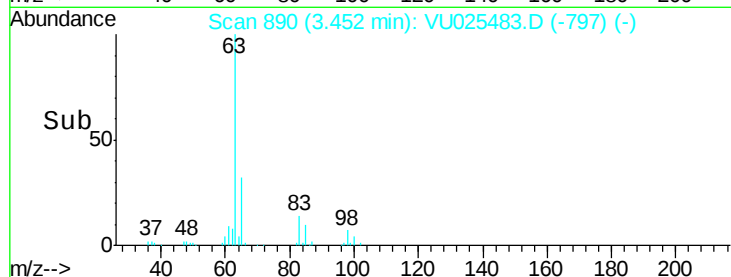
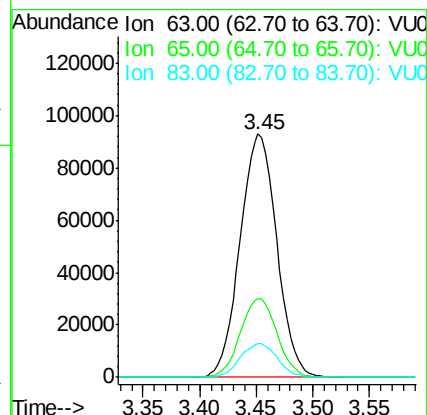
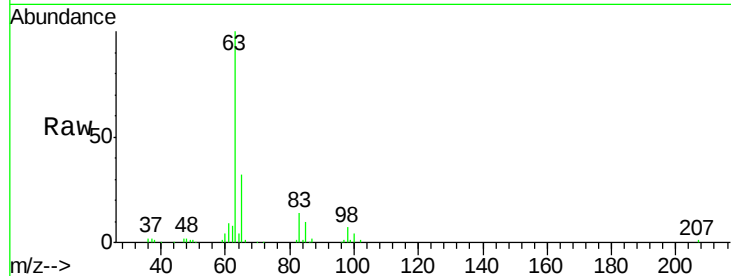




#19
 1,1-Dichloroethane
 Concen: 46.937 ug/L
 RT: 3.45 min Scan# 890
 Delta R.T. 0.00 min
 Lab File: VU025483.D
 Acq: 18 Jul 2018 01:58

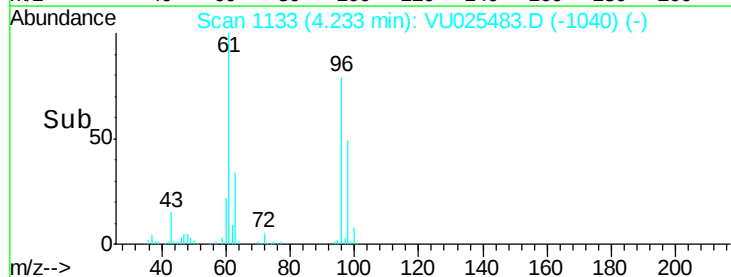
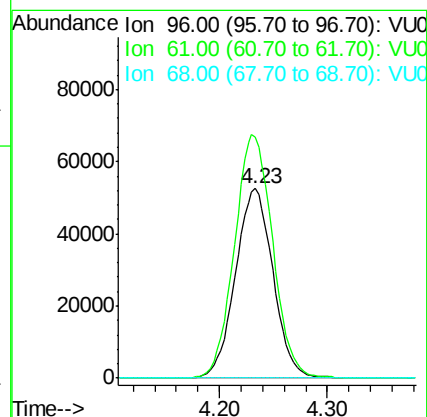
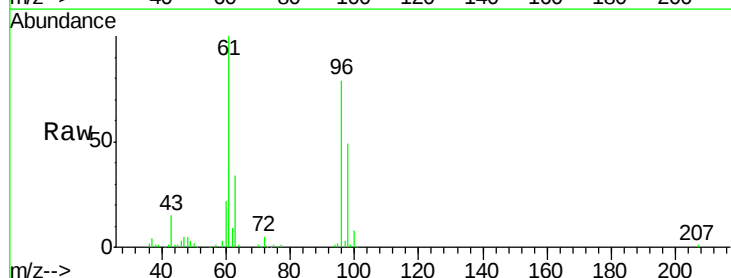
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

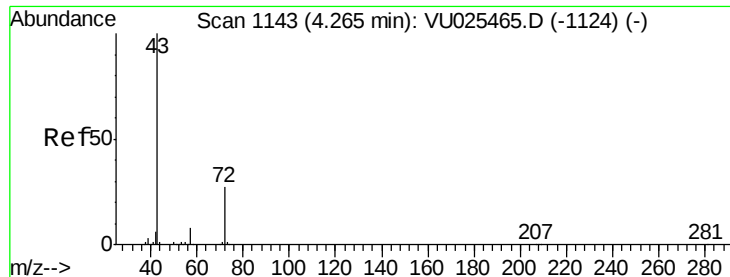
Tgt Ion: 63 Resp: 210477
 Ion Ratio Lower Upper
 63 100
 65 32.5 22.7 42.1
 83 13.7 9.9 18.3



#20
 cis-1,2-Dichloroethene
 Concen: 46.088 ug/L
 RT: 4.23 min Scan# 1133
 Delta R.T. 0.00 min
 Lab File: VU025483.D
 Acq: 18 Jul 2018 01:58

Tgt Ion: 96 Resp: 126492
 Ion Ratio Lower Upper
 96 100
 61 127.3 91.7 170.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 80.601 ug/L

RT: 4.27 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

Instrument :

MSVOA_U

ClientSampleId :

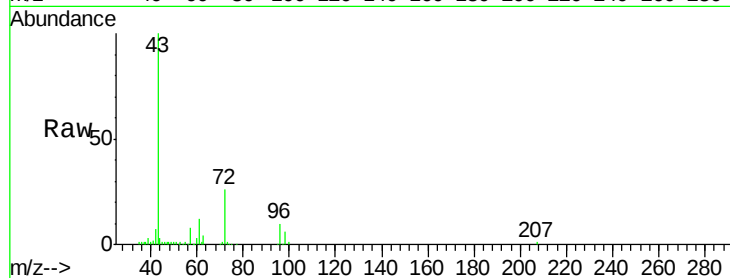
VSTD05048

Tgt Ion: 43 Resp: 169985

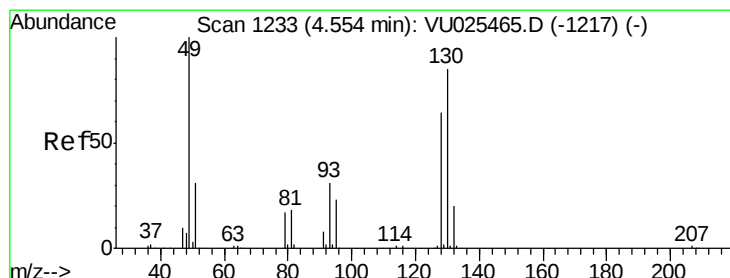
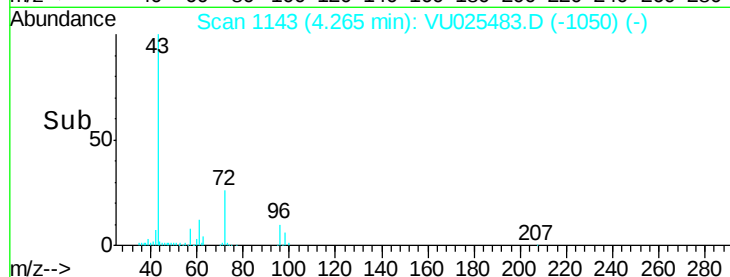
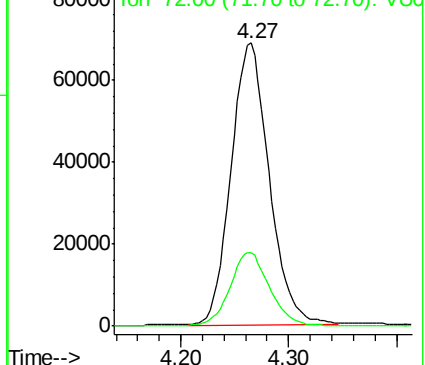
Ion Ratio Lower Upper

43 100

72 27.1 13.4 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU025483.D (-1050) (-)



#23

Bromochloromethane

Concen: 49.311 ug/L

RT: 4.55 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

Tgt Ion: 128 Resp: 67833

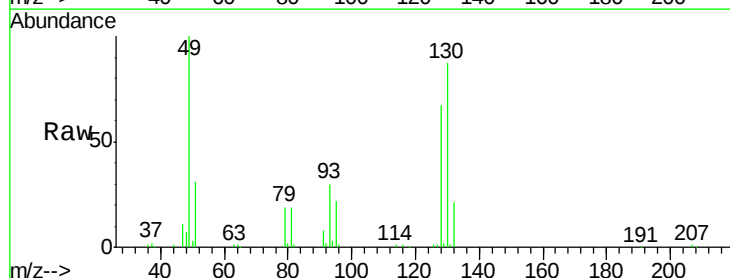
Ion Ratio Lower Upper

128 100

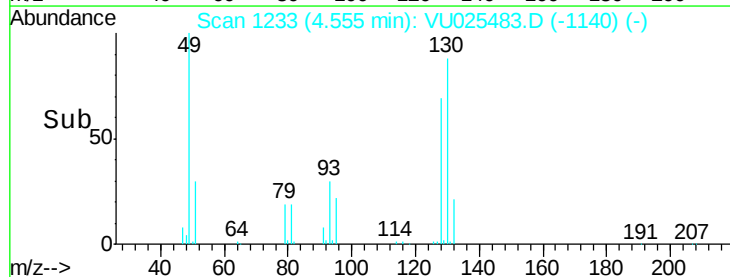
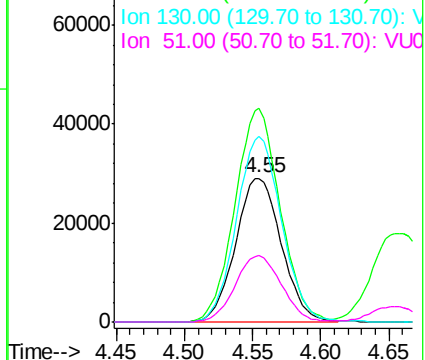
49 148.4 103.0 191.2

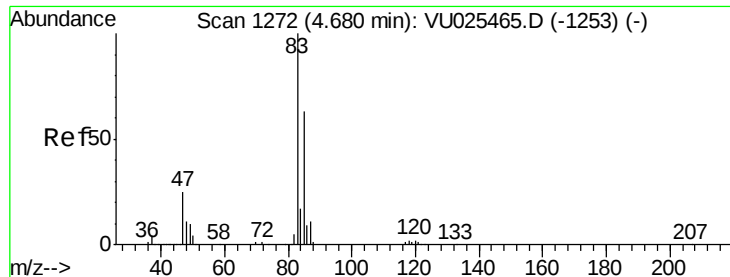
130 128.8 88.5 164.3

51 45.8 38.7 58.1



Abundance Ion 128.00 (127.70 to 128.70): VU025483.D (-1140) (-)

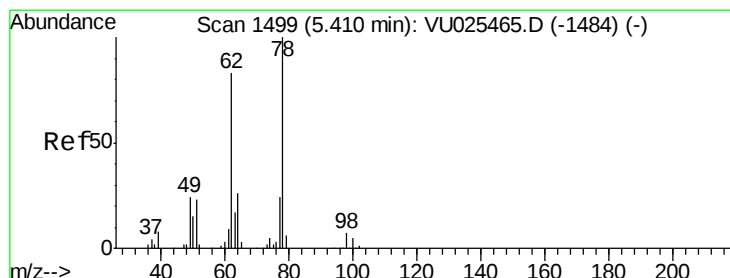
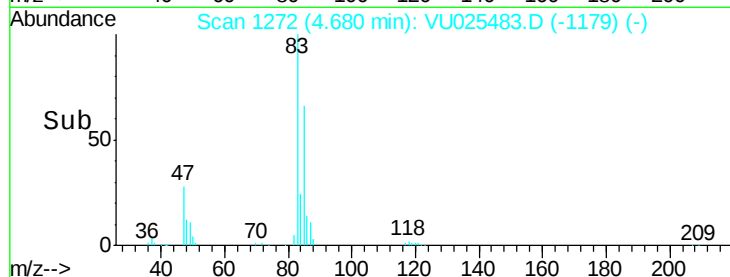
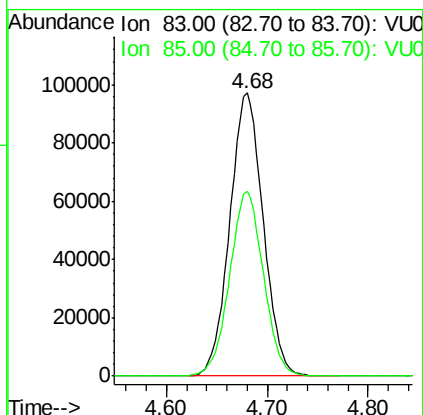
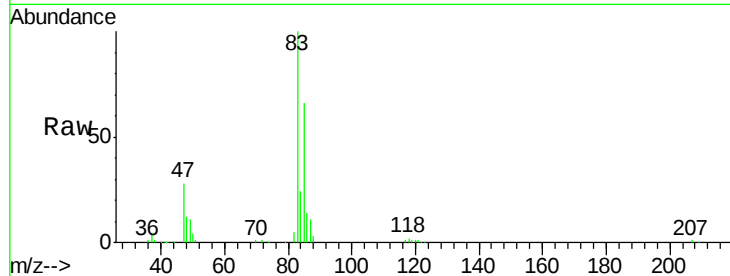




#25
Chloroform
Concen: 47.483 ug/L
RT: 4.68 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU025483.D
Acq: 18 Jul 2018 01:58

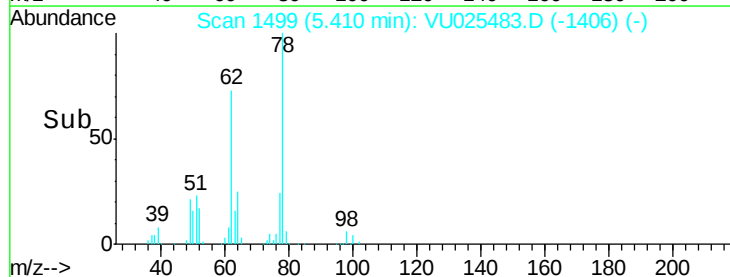
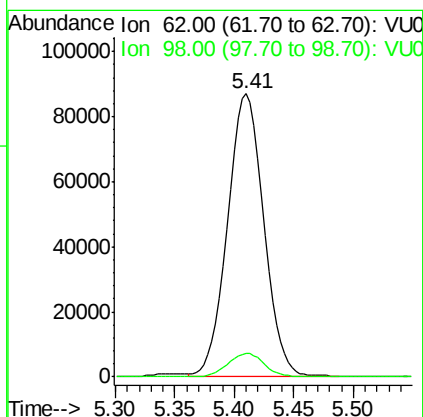
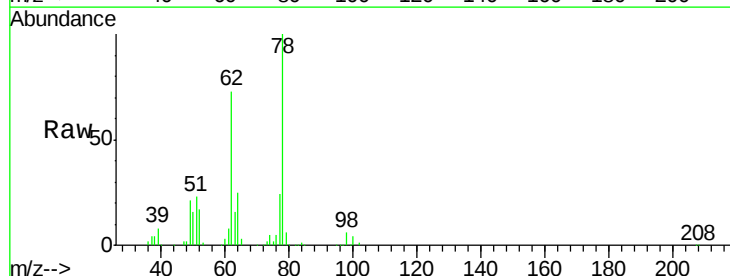
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

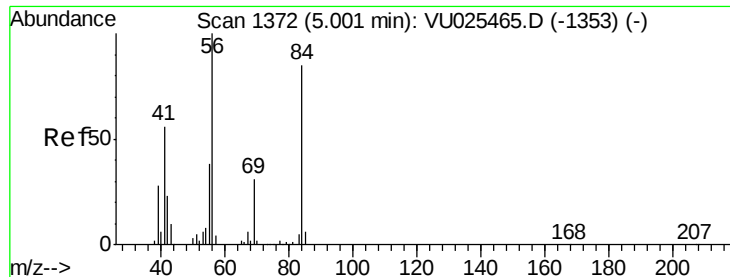
Tgt Ion: 83 Resp: 223738
Ion Ratio Lower Upper
83 100
85 65.5 47.2 87.6



#27
1,2-Dichloroethane
Concen: 46.769 ug/L
RT: 5.41 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VU025483.D
Acq: 18 Jul 2018 01:58

Tgt Ion: 62 Resp: 183009
Ion Ratio Lower Upper
62 100
98 8.4 6.5 9.7

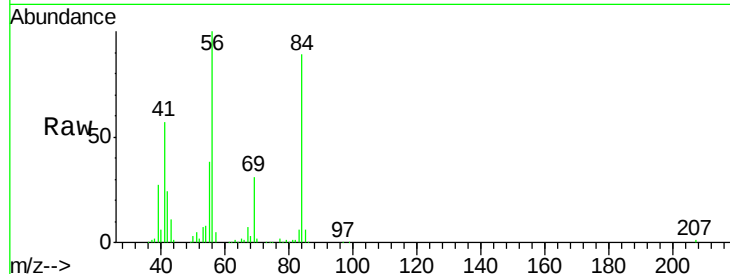




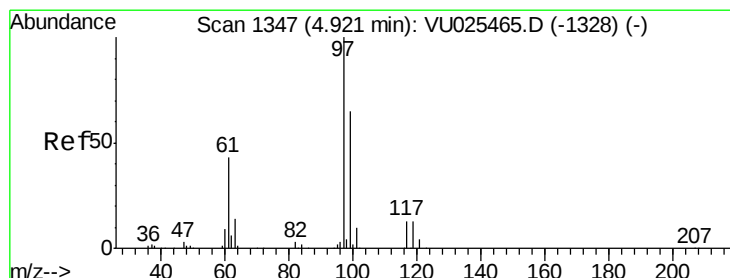
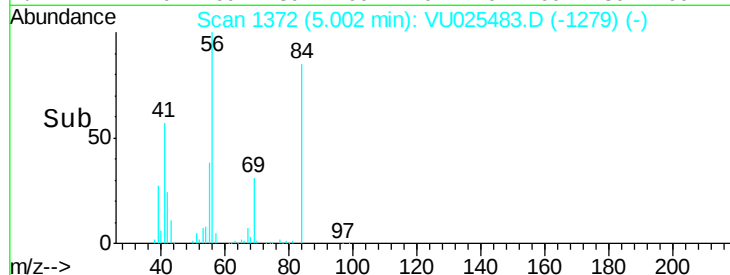
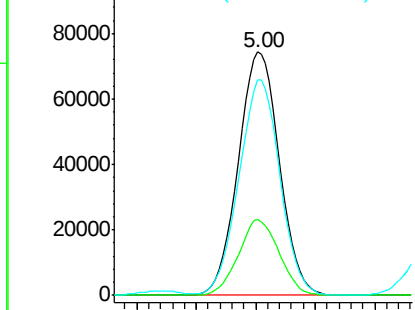
#29
Cyclohexane
Concen: 47.602 ug/L
RT: 5.00 min Scan# 1372
Delta R.T. 0.00 min
Lab File: VU025483.D
Acq: 18 Jul 2018 01:58

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Tgt Ion: 56 Resp: 177836
Ion Ratio Lower Upper
56 100
69 30.8 25.0 37.4
84 88.5 70.3 105.5

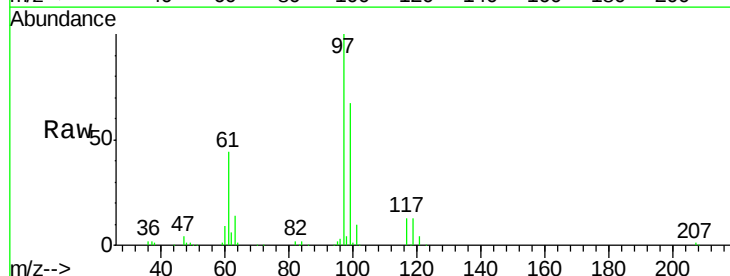


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

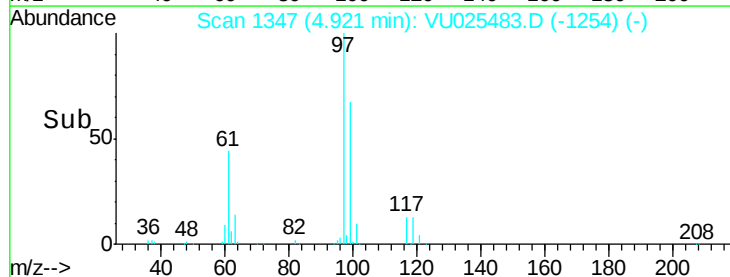
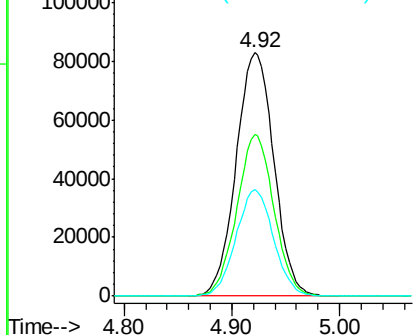


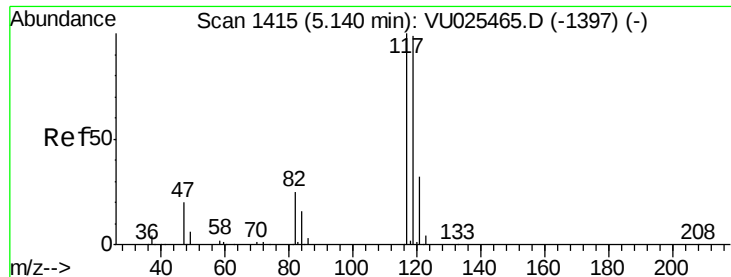
#30
1,1,1-Trichloroethane
Concen: 46.724 ug/L
RT: 4.92 min Scan# 1347
Delta R.T. 0.00 min
Lab File: VU025483.D
Acq: 18 Jul 2018 01:58

Tgt Ion: 97 Resp: 201721
Ion Ratio Lower Upper
97 100
99 65.2 51.5 77.3
61 43.4 34.1 51.1



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 47.716 ug/L

RT: 5.14 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

Instrument :

MSVOA_U

ClientSampleId :

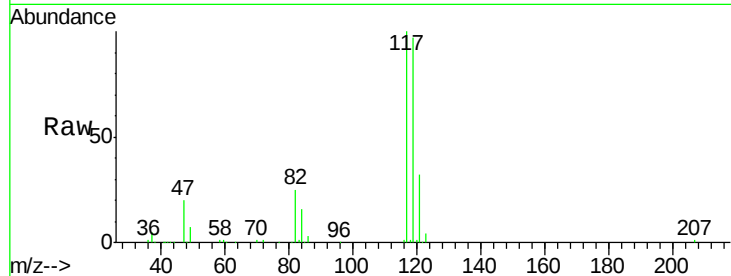
VSTD05048

Tgt Ion:117 Resp: 180974

Ion Ratio Lower Upper

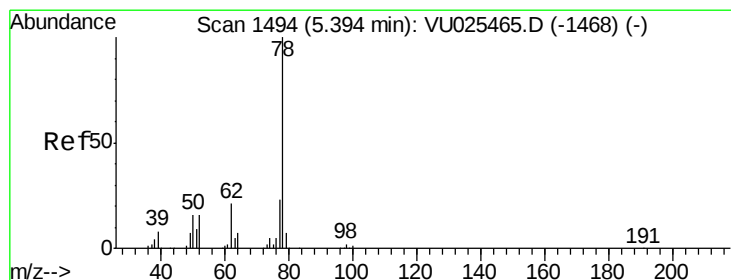
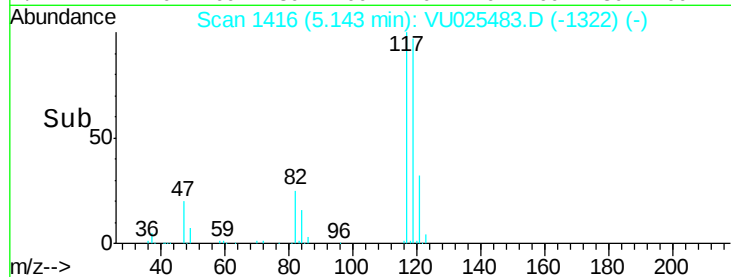
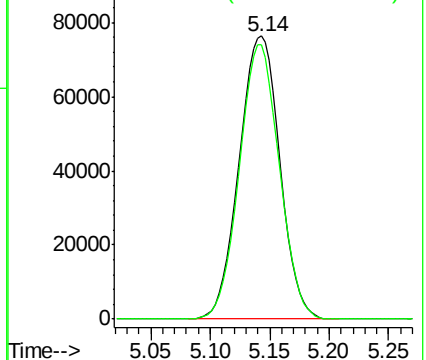
117 100

119 95.3 77.1 115.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 46.920 ug/L

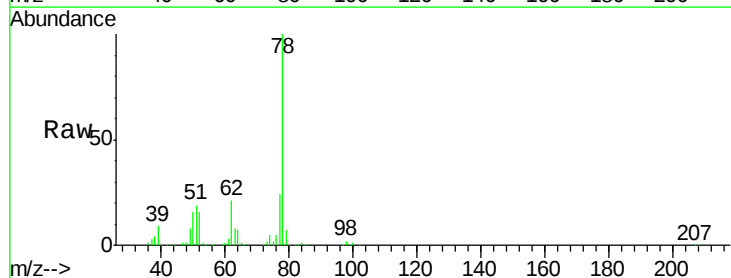
RT: 5.39 min Scan# 1494

Delta R.T. 0.00 min

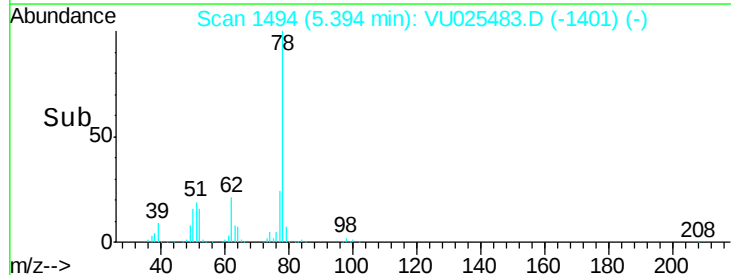
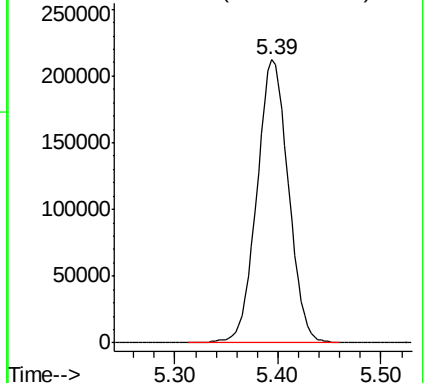
Lab File: VU025483.D

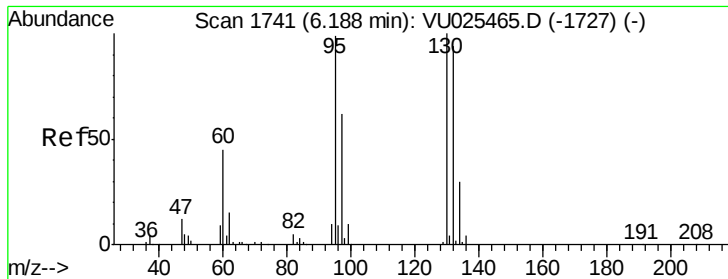
Acq: 18 Jul 2018 01:58

Tgt Ion: 78 Resp: 450328



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 47.460 ug/L

RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

Tgt Ion: 95 Resp: 120582

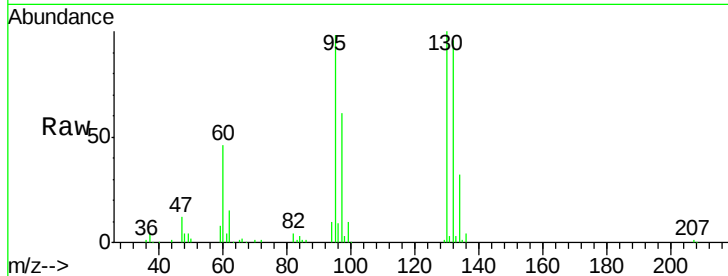
Ion Ratio Lower Upper

95 100

97 62.6 45.9 85.3

132 98.1 68.2 126.6

130 102.1 71.8 133.4

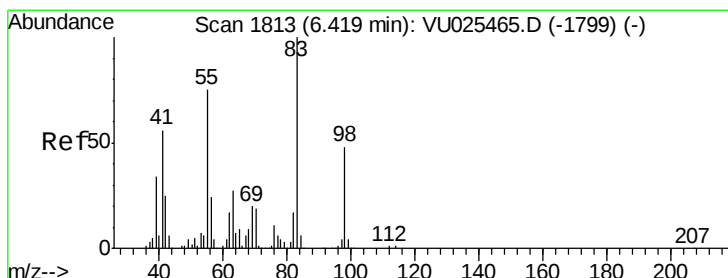
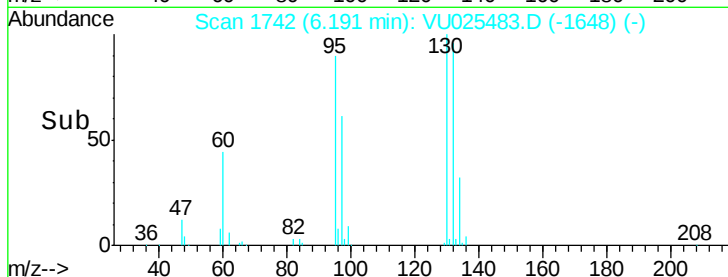
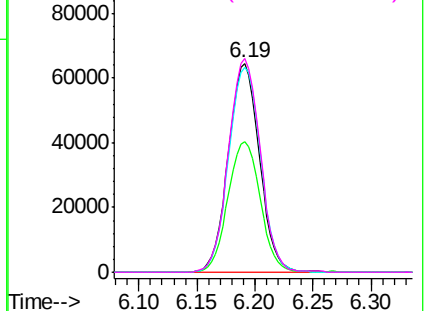


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 48.871 ug/L

RT: 6.42 min Scan# 1814

Delta R.T. 0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

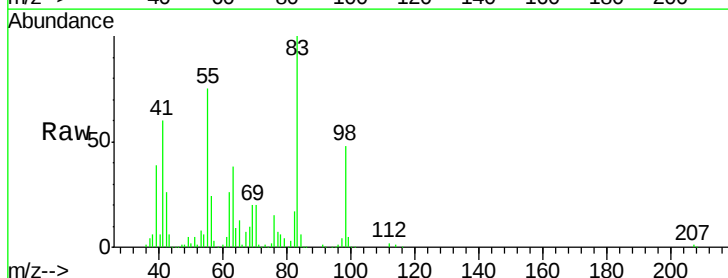
Tgt Ion: 83 Resp: 188517

Ion Ratio Lower Upper

83 100

55 75.2 61.8 92.8

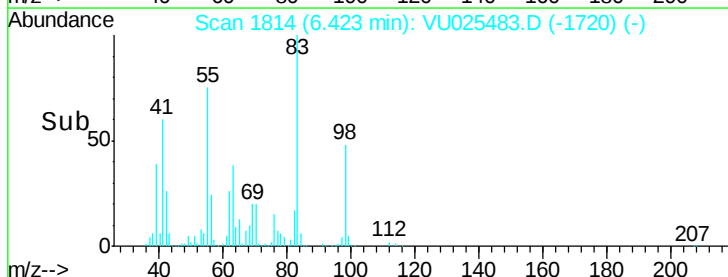
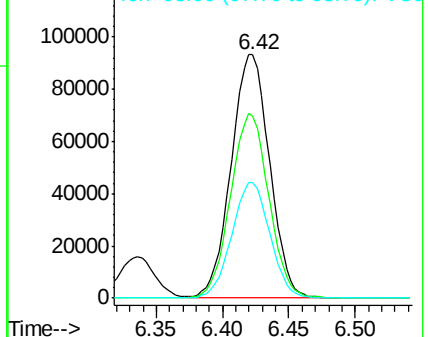
98 46.9 38.7 58.1

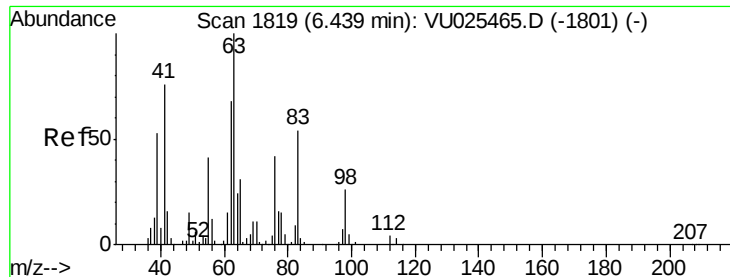


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

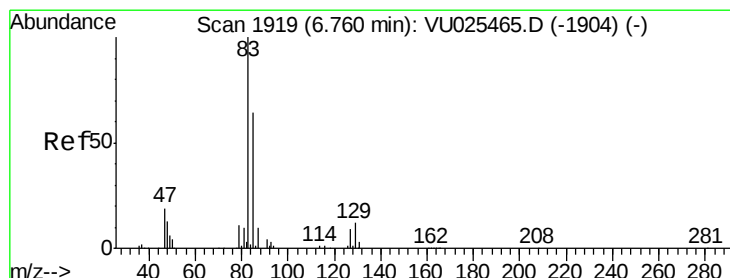
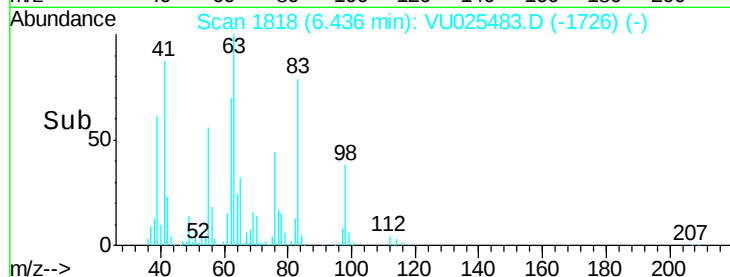
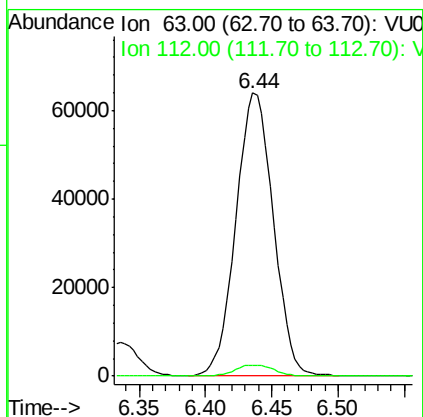
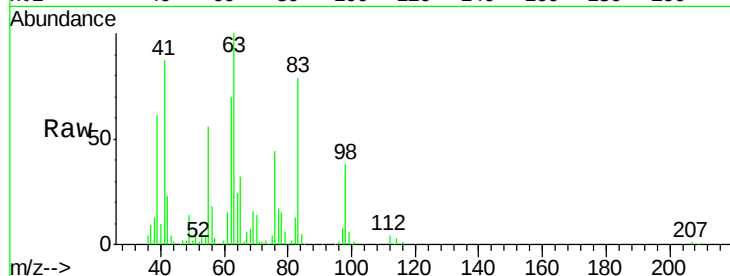




#37
 1,2-Dichloropropane
 Concen: 47.303 ug/L
 RT: 6.44 min Scan# 1818
 Delta R.T. -0.00 min
 Lab File: VU025483.D
 Acq: 18 Jul 2018 01:58

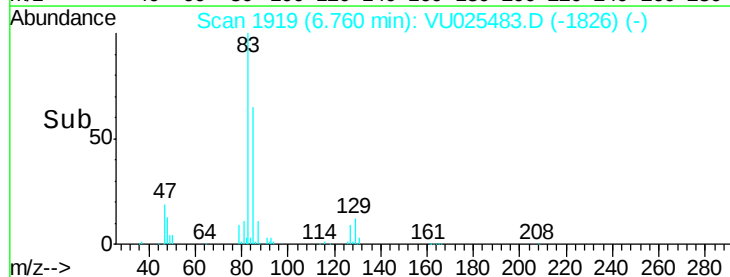
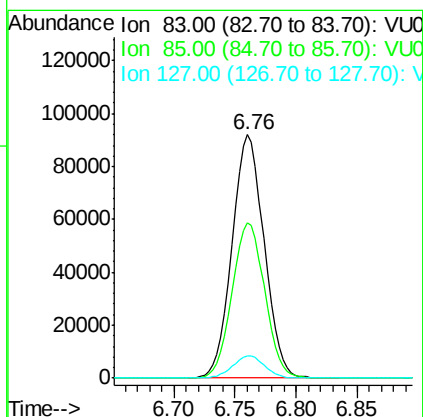
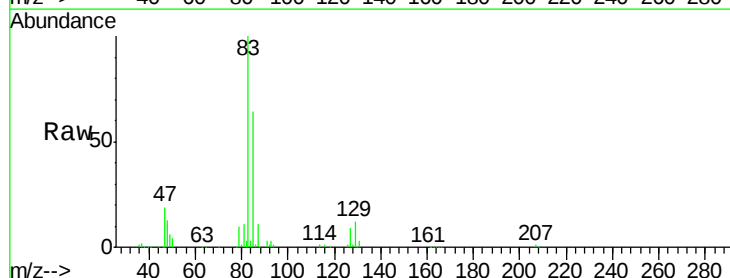
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

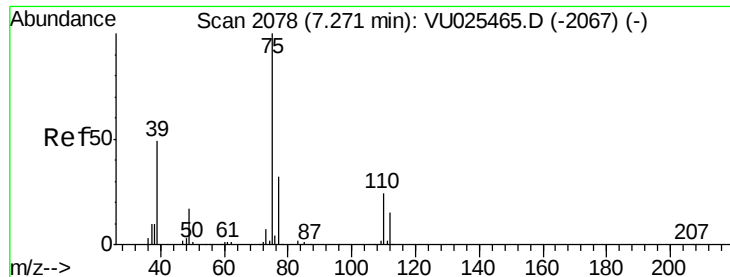
Tgt Ion: 63 Resp: 125241
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.2 4.8



#38
 Bromodichloromethane
 Concen: 47.115 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. 0.00 min
 Lab File: VU025483.D
 Acq: 18 Jul 2018 01:58

Tgt Ion: 83 Resp: 168431
 Ion Ratio Lower Upper
 83 100
 85 63.8 45.8 85.2
 127 9.0 7.3 10.9

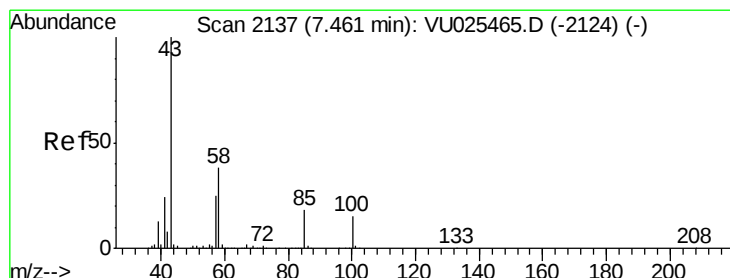
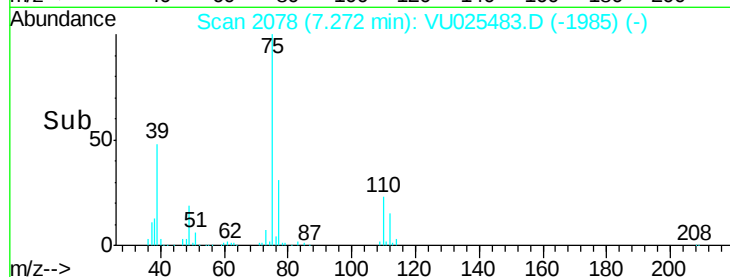
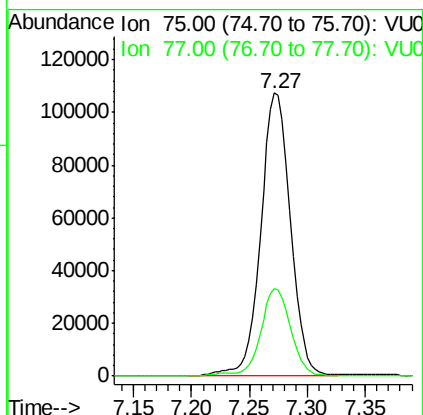
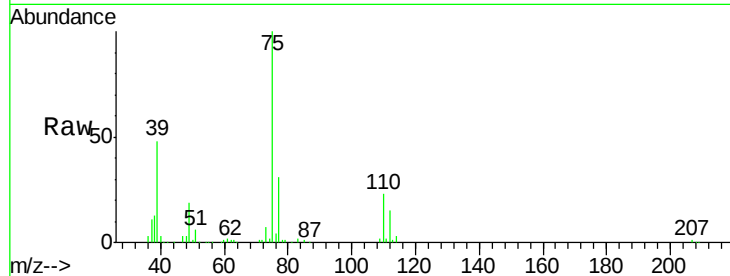




#39
 cis-1,3-Dichloropropene
 Concen: 46.767 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VU025483.D
 Acq: 18 Jul 2018 01:58

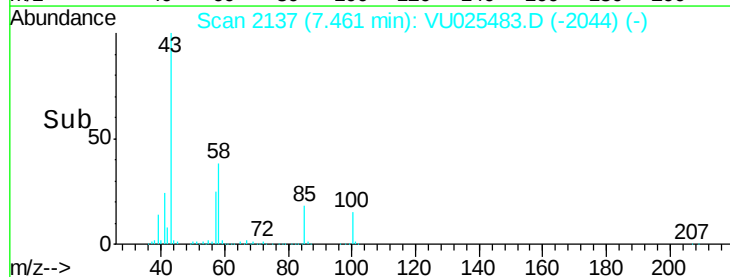
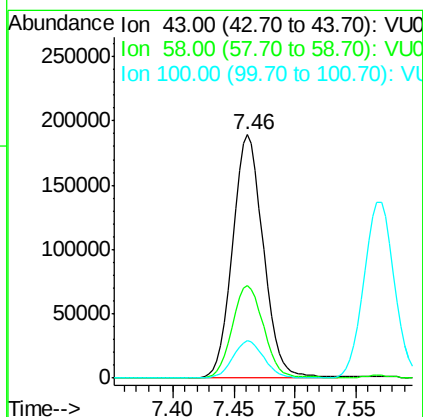
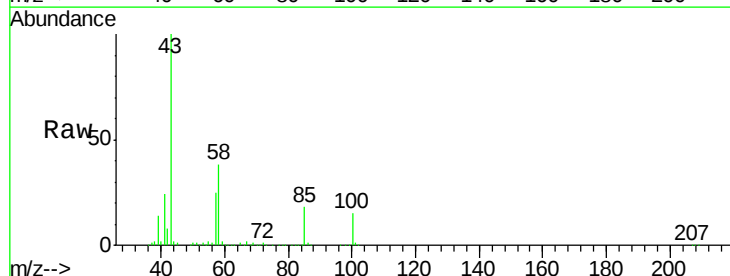
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

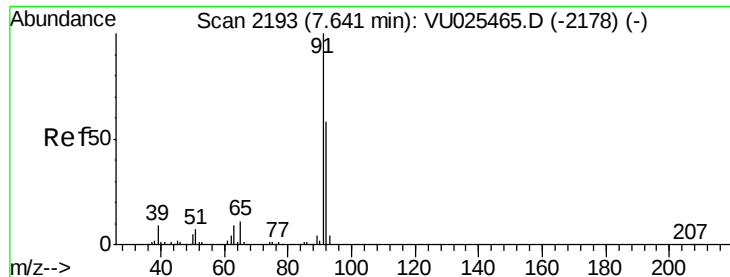
Tgt Ion: 75 Resp: 191850
 Ion Ratio Lower Upper
 75 100
 77 30.9 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 86.521 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. 0.00 min
 Lab File: VU025483.D
 Acq: 18 Jul 2018 01:58

Tgt Ion: 43 Resp: 332230
 Ion Ratio Lower Upper
 43 100
 58 38.7 30.9 46.3
 100 15.4 12.4 18.6





#42

Toluene

Concen: 48.491 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

Instrument :

MSVOA_U

ClientSampleId :

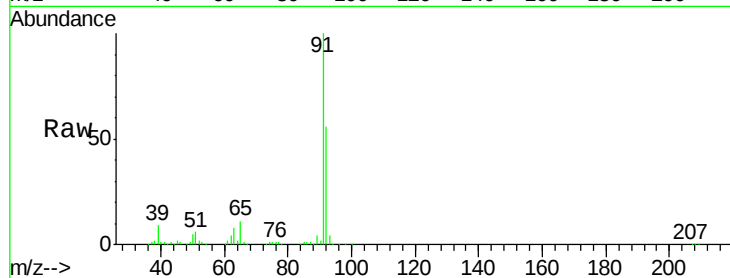
VSTD05048

Tgt Ion: 91 Resp: 496244

Ion Ratio Lower Upper

91 100

92 56.3 40.5 75.1



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

7.64

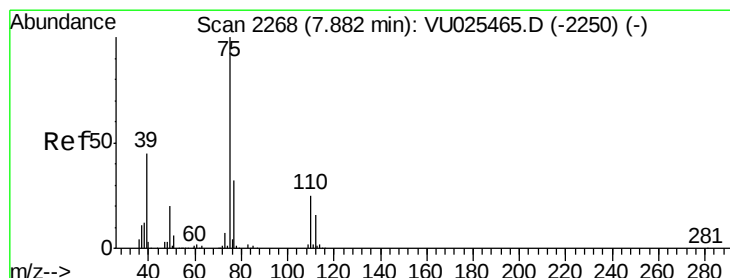
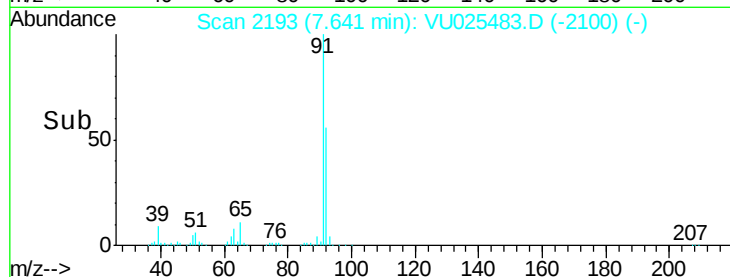
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 46.486 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU025483.D

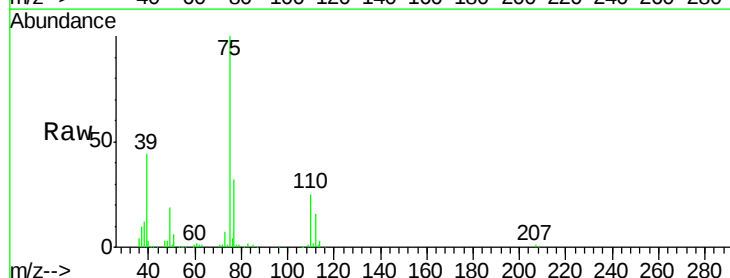
Acq: 18 Jul 2018 01:58

Tgt Ion: 75 Resp: 183066

Ion Ratio Lower Upper

75 100

77 31.5 22.7 42.3



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

7.88

120000

100000

80000

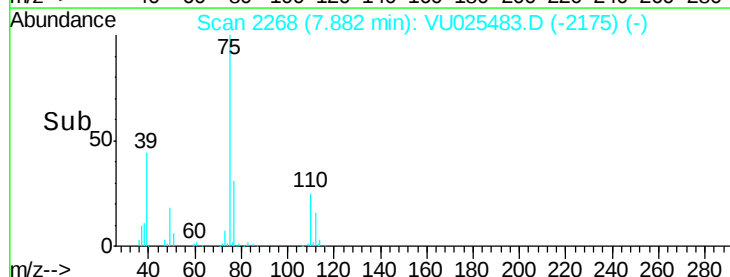
60000

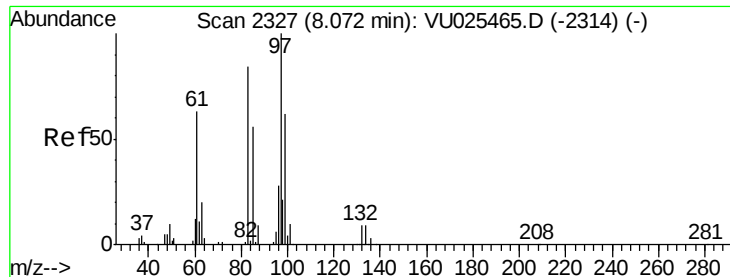
40000

20000

0

Time-->

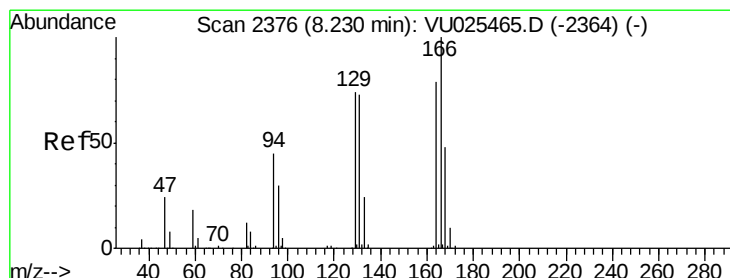
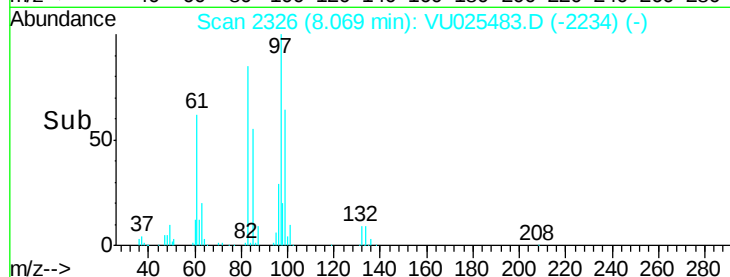
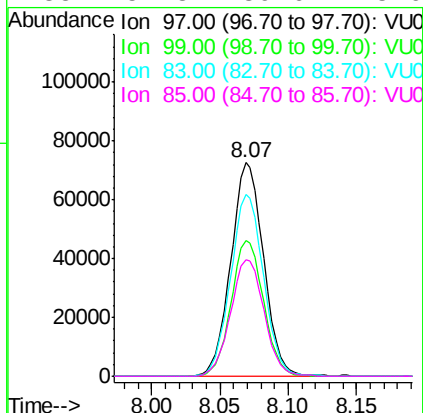
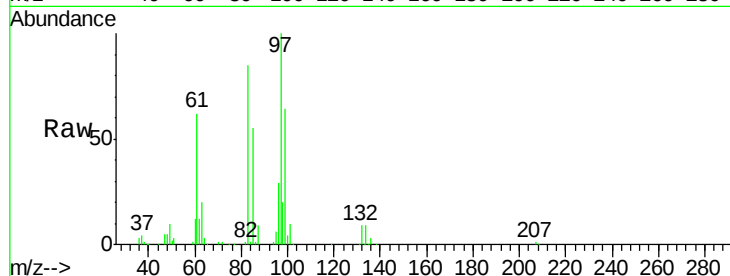




#45
 1,1,2-Trichloroethane
 Concen: 48.193 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU025483.D
 Acq: 18 Jul 2018 01:58

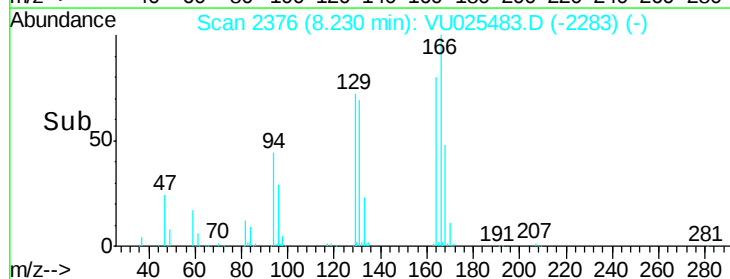
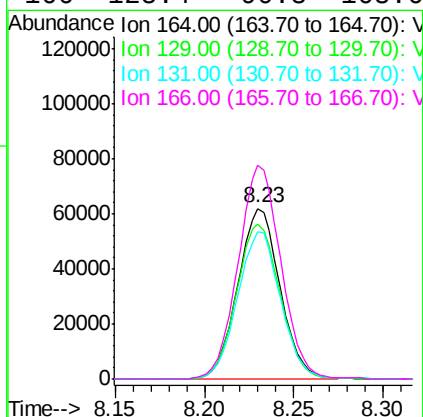
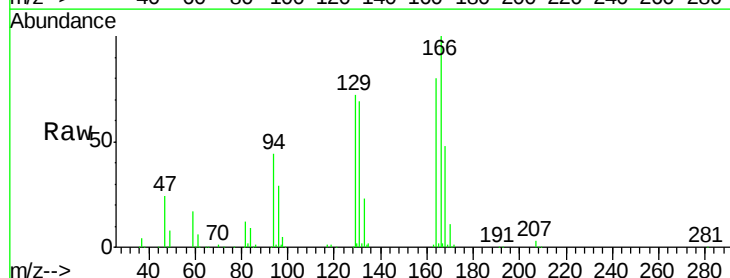
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05048

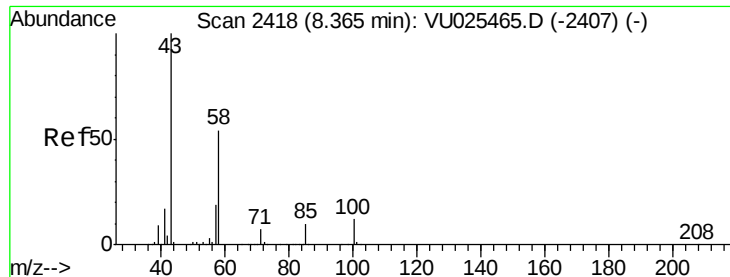
Tgt Ion:	97	Resp:	120976
Ion	Ratio	Lower	Upper
97	100		
99	63.7	44.7	83.1
83	85.1	62.0	115.2
85	54.8	39.6	73.6



#46
 Tetrachloroethene
 Concen: 48.294 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. 0.00 min
 Lab File: VU025483.D
 Acq: 18 Jul 2018 01:58

Tgt Ion:	164	Resp:	102358
Ion	Ratio	Lower	Upper
164	100		
129	90.7	66.5	123.5
131	86.2	63.7	118.3
166	125.4	90.8	168.6

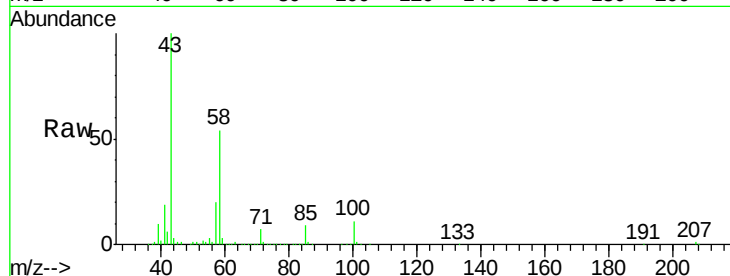




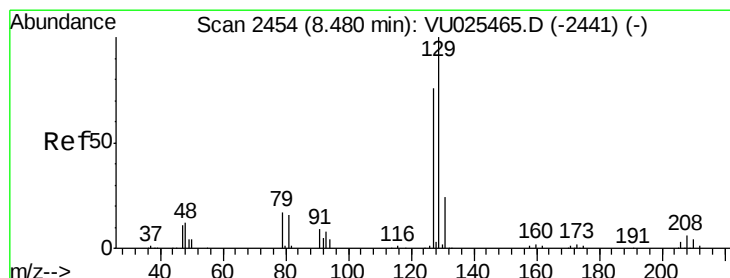
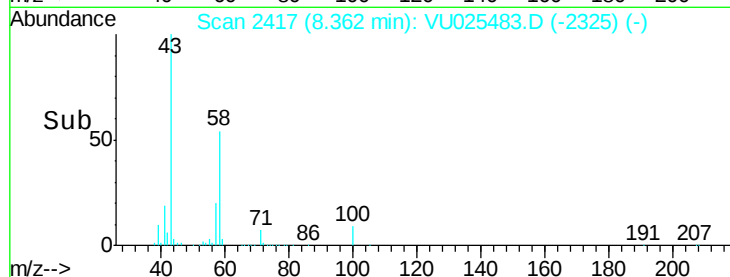
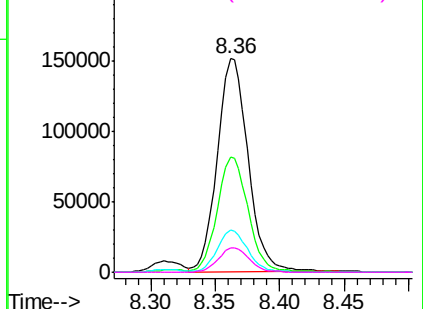
#48
2-Hexanone
Concen: 81.778 ug/L
RT: 8.36 min Scan# 2417
Delta R.T. -0.00 min
Lab File: VU025483.D
Acq: 18 Jul 2018 01:58

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Tgt Ion: 43 Resp: 250885
Ion Ratio Lower Upper
43 100
58 53.8 42.3 63.5
57 19.3 15.6 23.4
100 11.5 9.3 13.9

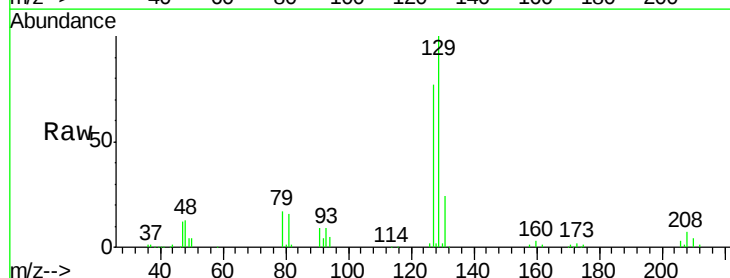


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

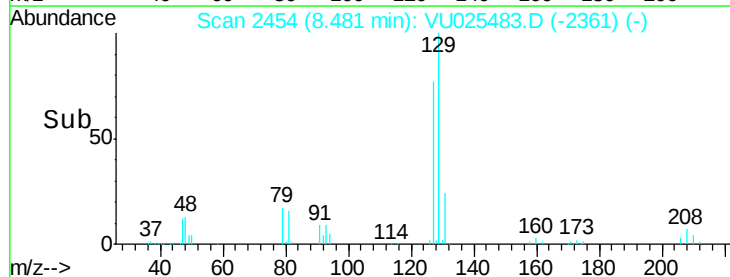
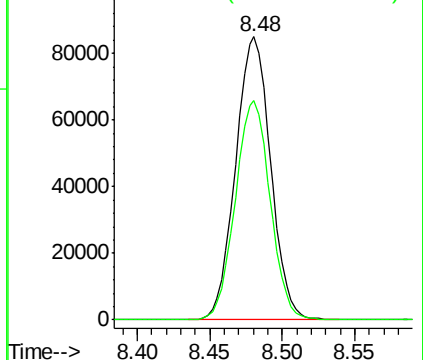


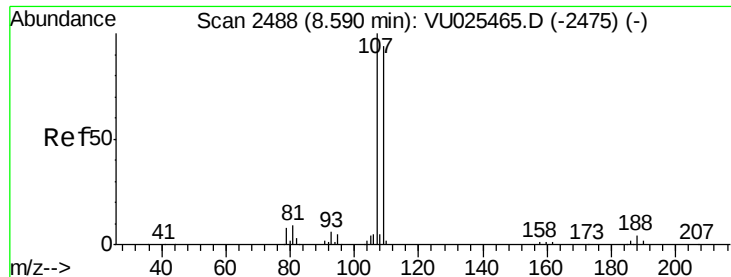
#49
Dibromochloromethane
Concen: 47.105 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU025483.D
Acq: 18 Jul 2018 01:58

Tgt Ion: 129 Resp: 143143
Ion Ratio Lower Upper
129 100
127 77.3 52.4 97.2



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

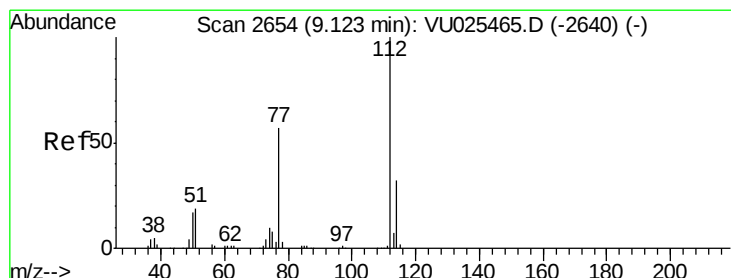
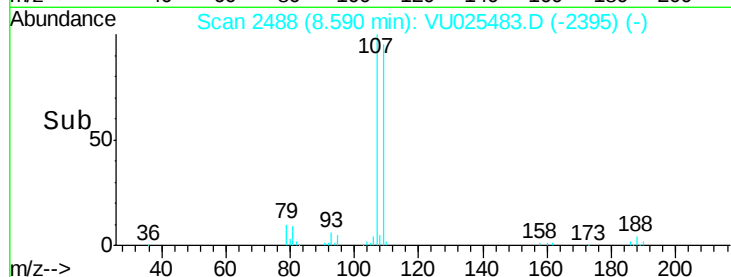
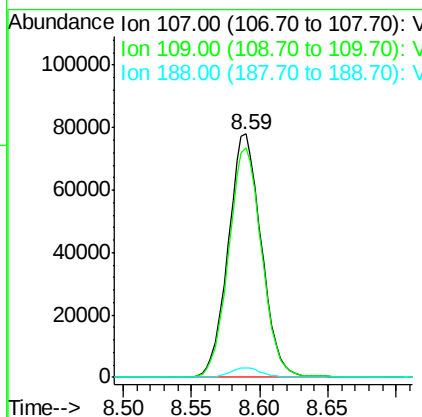
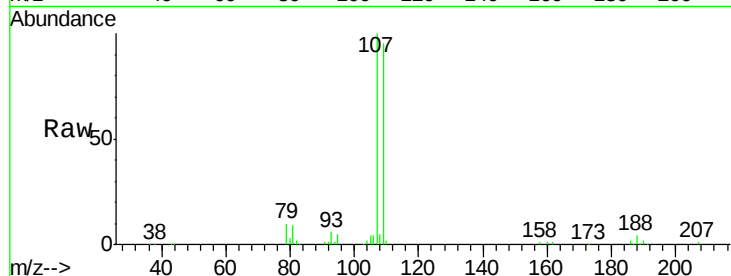




#50
1,2-Dibromoethane
Concen: 47.450 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. 0.00 min
Lab File: VU025483.D
Acq: 18 Jul 2018 01:58

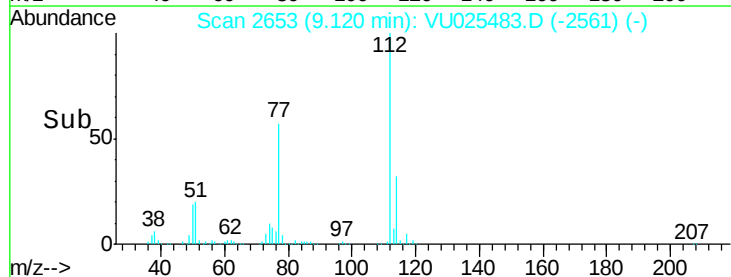
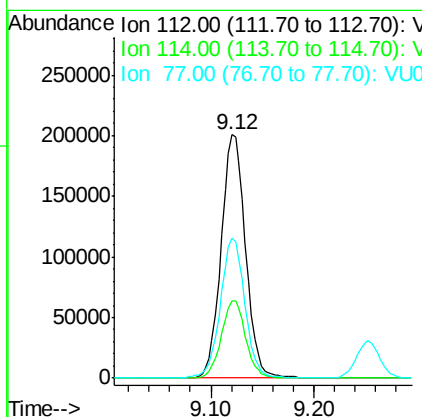
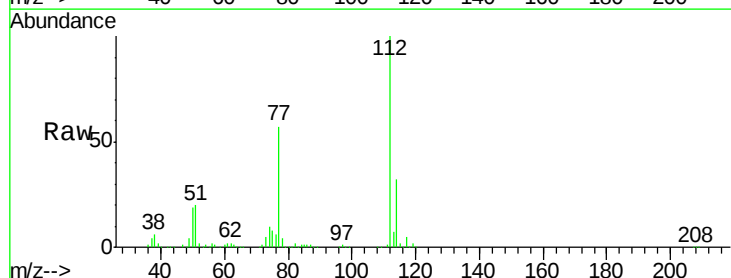
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

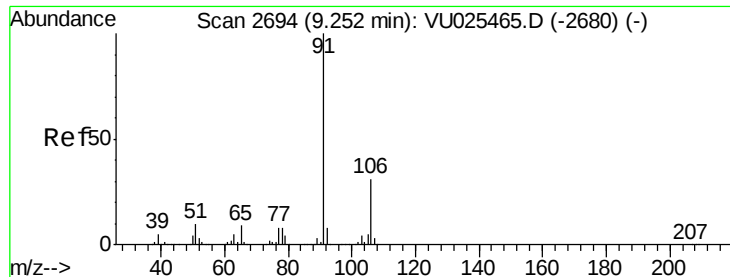
Tgt Ion:107 Resp: 131470
Ion Ratio Lower Upper
107 100
109 94.5 66.5 123.5
188 4.0 3.4 5.0



#51
Chlorobenzene
Concen: 48.110 ug/L
RT: 9.12 min Scan# 2653
Delta R.T. -0.00 min
Lab File: VU025483.D
Acq: 18 Jul 2018 01:58

Tgt Ion:112 Resp: 330357
Ion Ratio Lower Upper
112 100
114 31.6 22.8 42.4
77 57.2 45.8 68.8





#52

Ethylbenzene

Concen: 48.299 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

Instrument :

MSVOA_U

ClientSampleId :

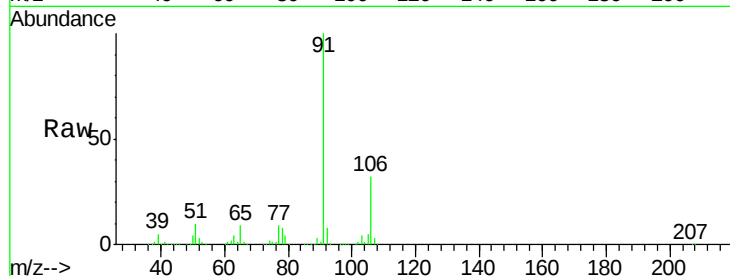
VSTD05048

Tgt Ion: 91 Resp: 551749

Ion Ratio Lower Upper

91 100

106 31.9 22.4 41.6



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V

9.25

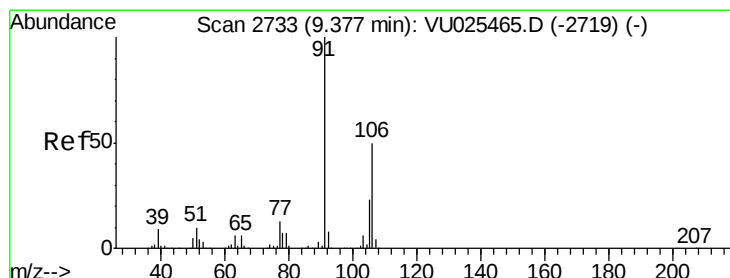
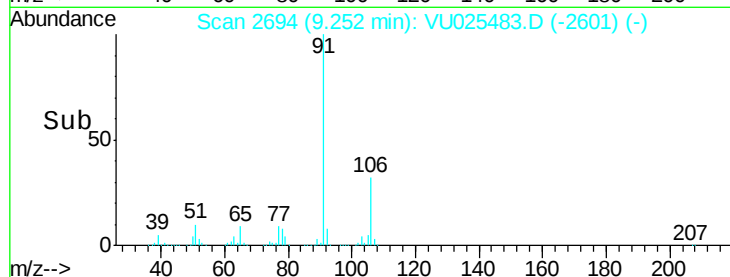
300000

200000

100000

0

Time--> 9.15 9.20 9.25 9.30 9.35



#53

m,p-Xylene

Concen: 48.314 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU025483.D

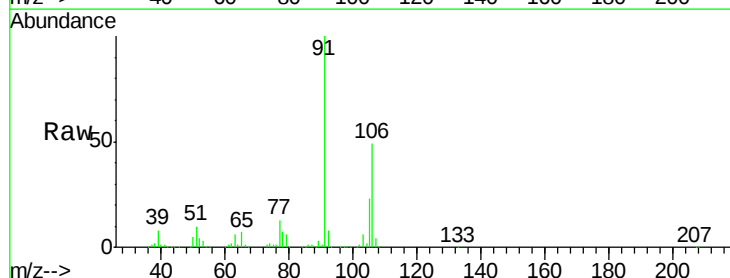
Acq: 18 Jul 2018 01:58

Tgt Ion: 106 Resp: 211542

Ion Ratio Lower Upper

106 100

91 204.7 138.6 257.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

9.38

300000

250000

200000

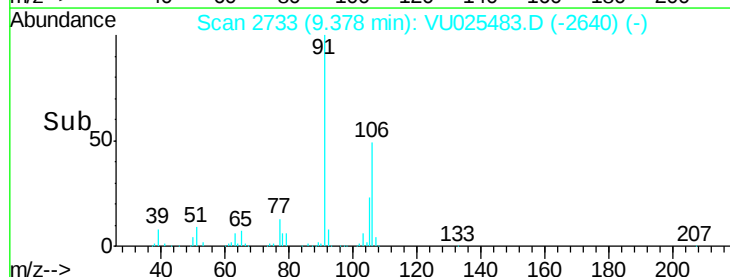
150000

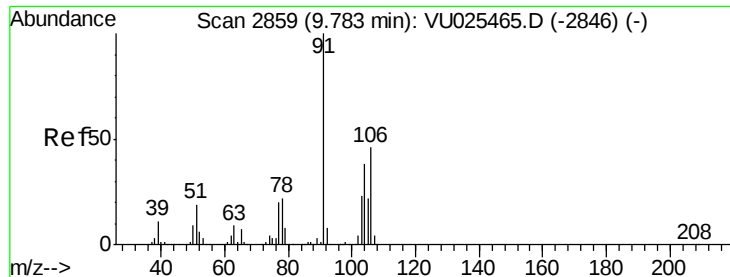
100000

50000

0

Time--> 9.30 9.35 9.40 9.45

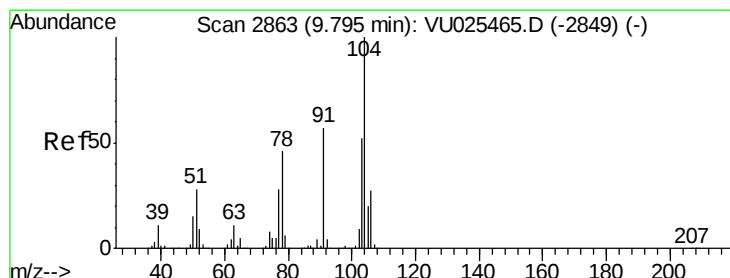
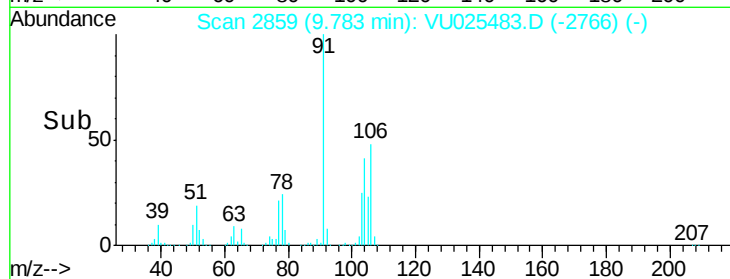
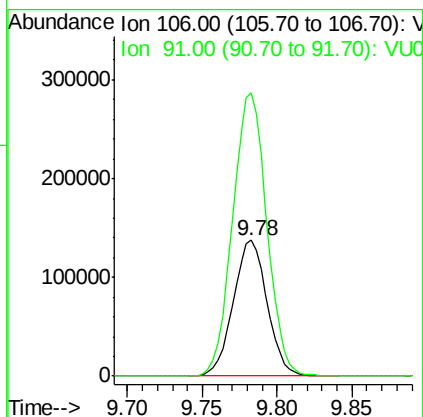
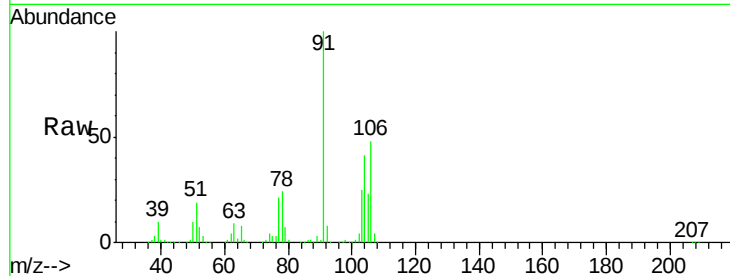




#54
o-xylene
Concen: 49.077 ug/L
RT: 9.78 min Scan# 2859
Delta R.T. 0.00 min
Lab File: VU025483.D
Acq: 18 Jul 2018 01:58

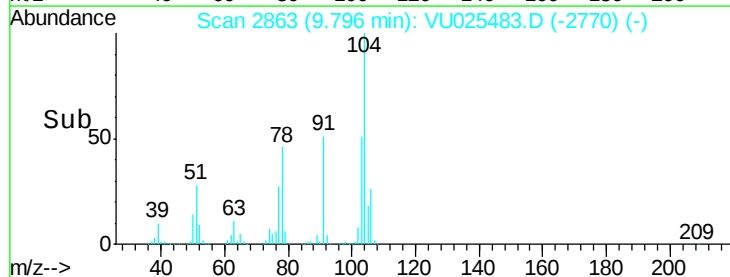
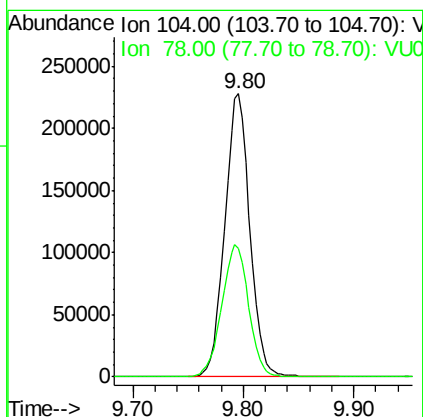
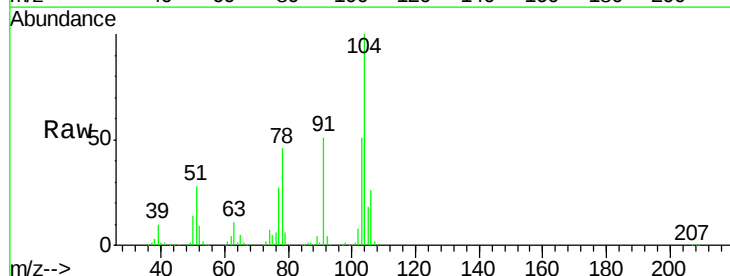
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

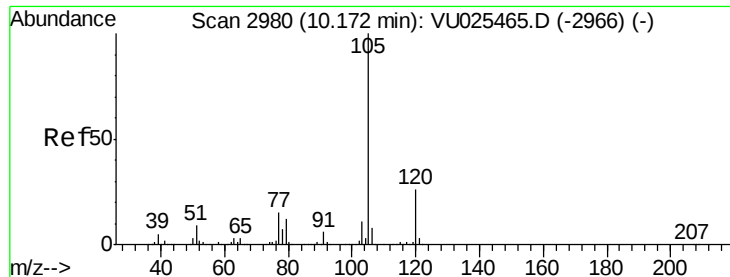
Tgt Ion:106 Resp: 216781
Ion Ratio Lower Upper
106 100
91 208.8 152.8 283.8



#55
Styrene
Concen: 49.122 ug/L
RT: 9.80 min Scan# 2863
Delta R.T. 0.00 min
Lab File: VU025483.D
Acq: 18 Jul 2018 01:58

Tgt Ion:104 Resp: 358372
Ion Ratio Lower Upper
104 100
78 45.6 32.6 60.5





#56

Isopropylbenzene

Concen: 49.051 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

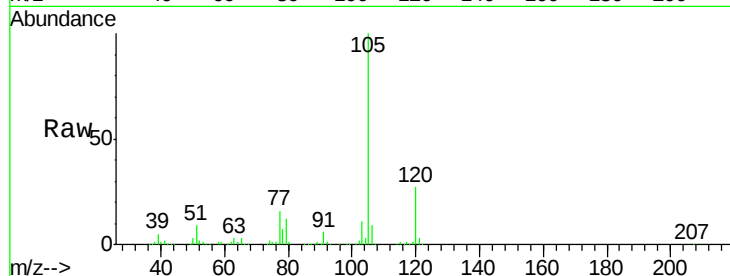
Tgt Ion: 105 Resp: 561104

Ion Ratio Lower Upper

105 100

120 27.2 21.6 32.4

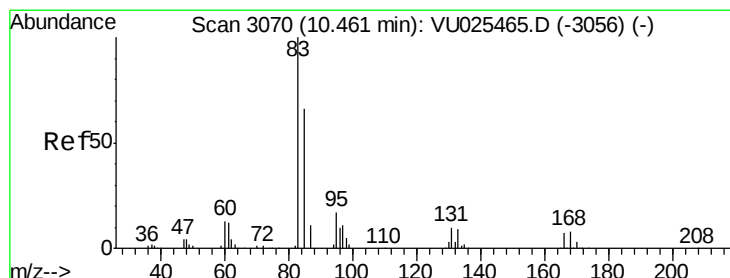
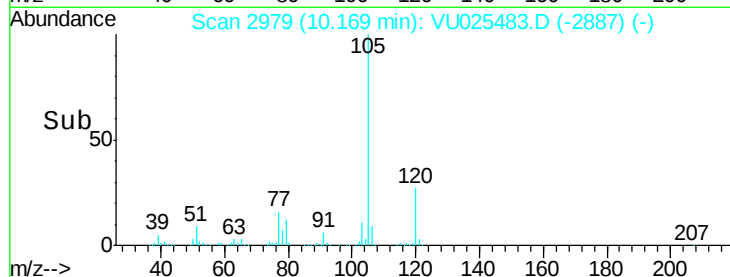
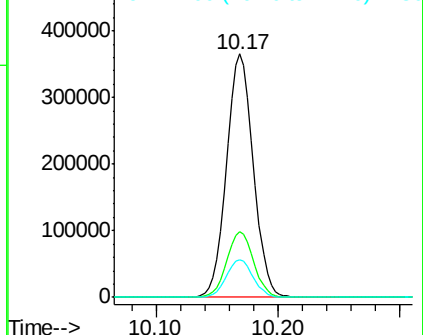
77 15.6 12.6 19.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 45.188 ug/L

RT: 10.46 min Scan# 3069

Delta R.T. -0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

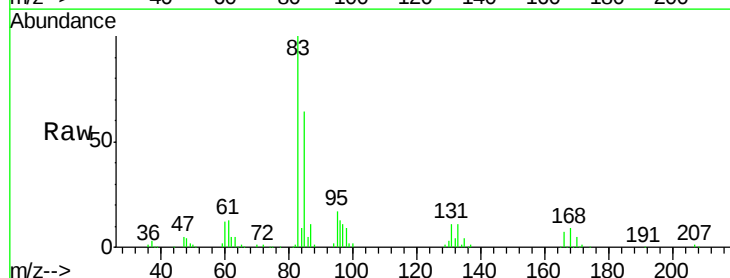
Tgt Ion: 83 Resp: 195293

Ion Ratio Lower Upper

83 100

85 64.4 44.9 83.5

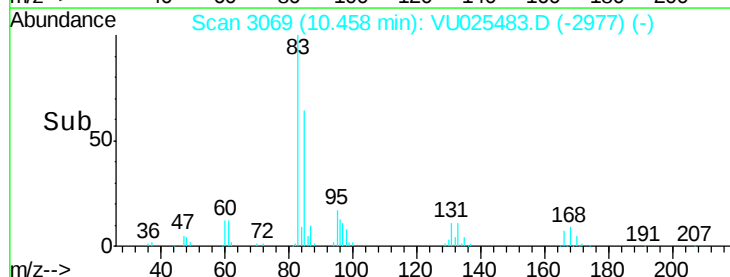
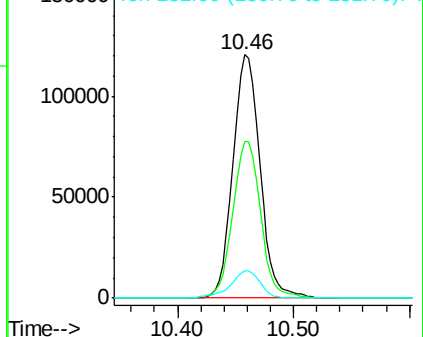
131 11.2 8.9 13.3

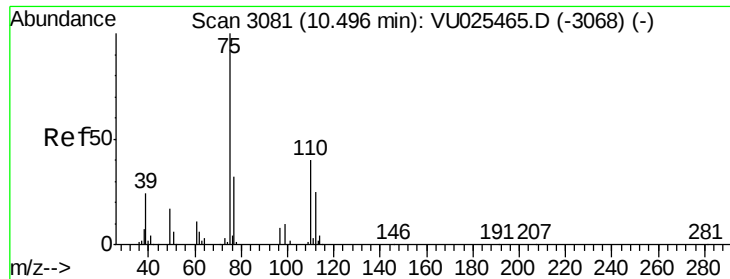


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 44.590 ug/L

RT: 10.50 min Scan# 3081

Delta R.T. 0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

Instrument :

MSVOA_U

ClientSampled :

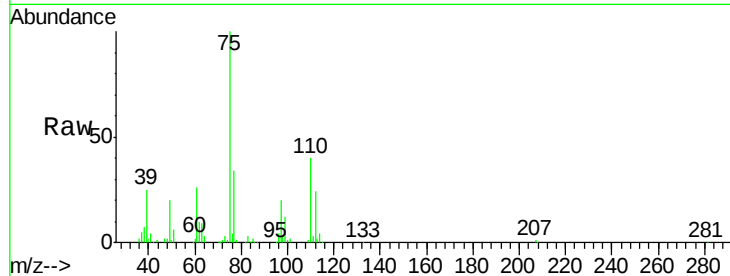
VSTD05048

Tgt Ion: 75 Resp: 156996

Ion Ratio Lower Upper

75 100

77 33.0 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU025465.D (-3068) (-)

Ion 77.00 (76.70 to 77.70): VU025465.D (-3068) (-)

10.50

100000

80000

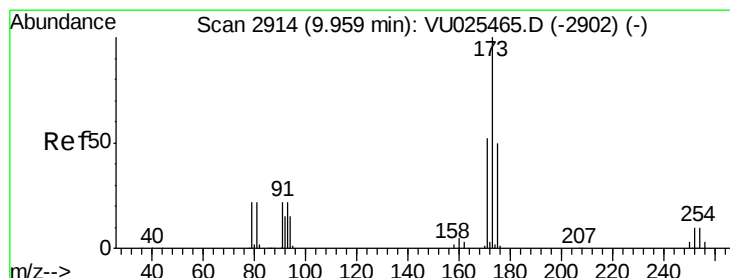
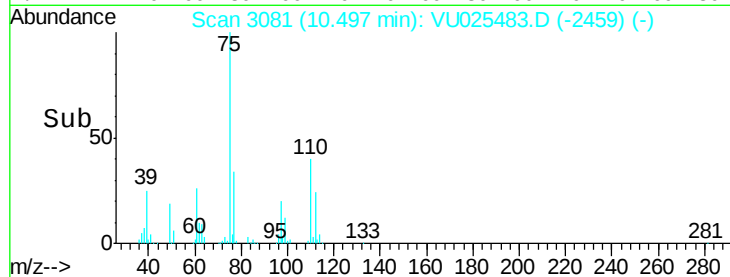
60000

40000

20000

0

Time-->



#61

Bromoform

Concen: 43.993 ug/L

RT: 9.96 min Scan# 2914

Delta R.T. 0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

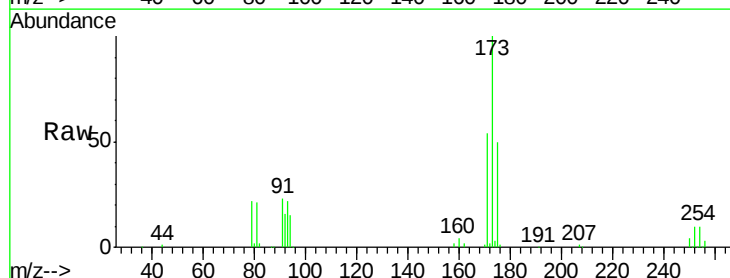
Tgt Ion: 173 Resp: 104488

Ion Ratio Lower Upper

173 100

175 48.9 39.1 58.7

254 9.4 7.3 10.9



Abundance Ion 173.00 (172.70 to 173.70): VU025465.D (-2902) (-)

Ion 175.00 (174.70 to 175.70): VU025465.D (-2902) (-)

Ion 254.00 (253.70 to 254.70): VU025465.D (-2902) (-)

9.96

80000

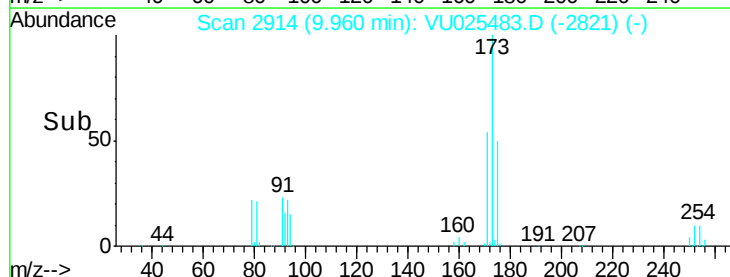
60000

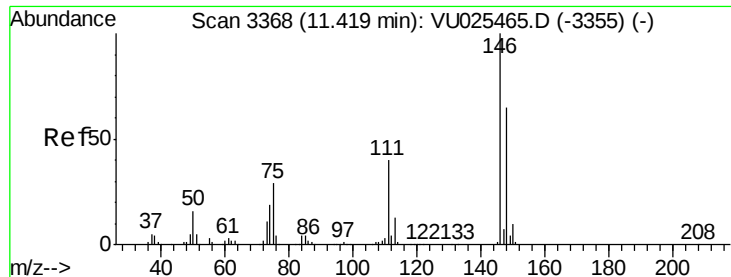
40000

20000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 46.917 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

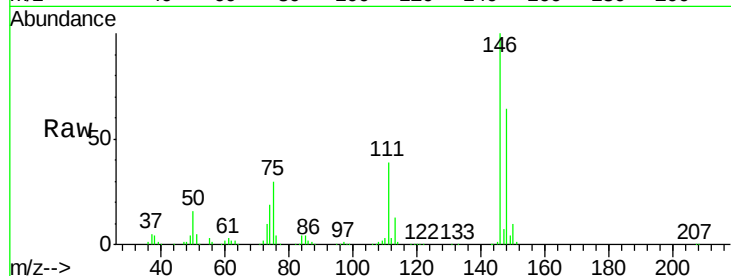
Tgt Ion:146 Resp: 261818

Ion Ratio Lower Upper

146 100

111 39.3 28.1 52.3

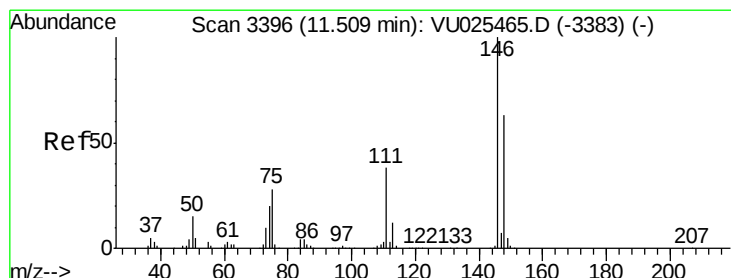
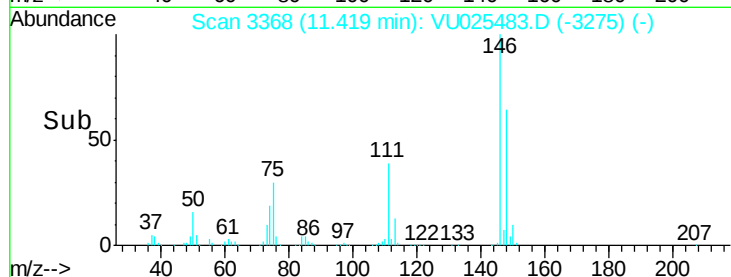
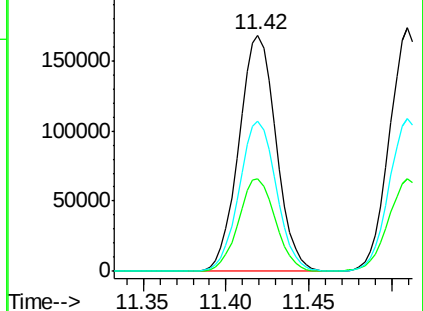
148 63.7 45.1 83.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 46.569 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VU025483.D

Acq: 18 Jul 2018 01:58

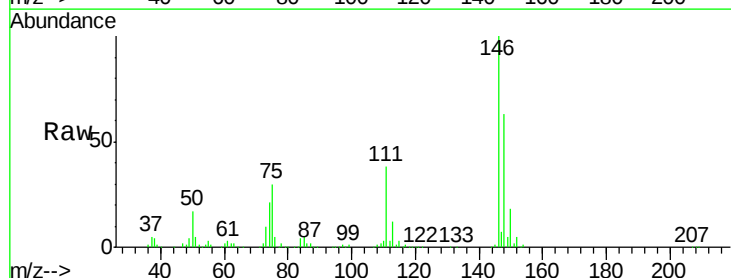
Tgt Ion:146 Resp: 262624

Ion Ratio Lower Upper

146 100

111 38.1 26.4 49.0

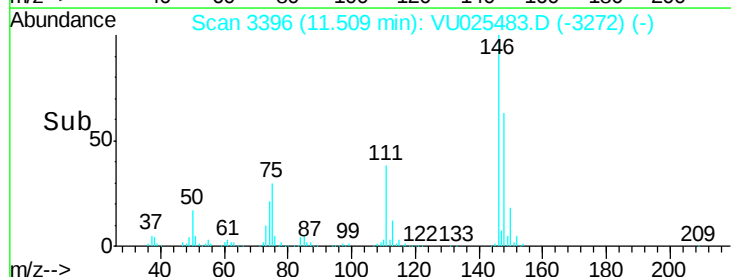
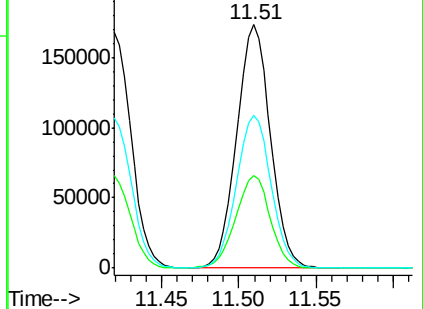
148 62.5 45.6 84.8

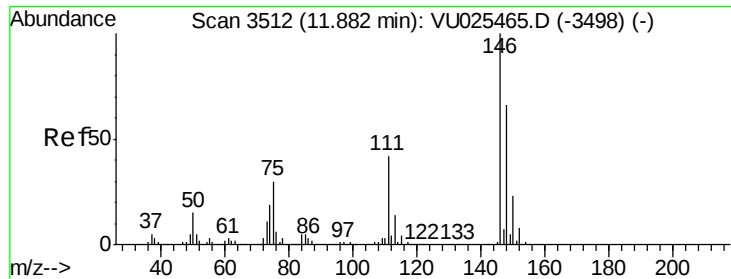


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

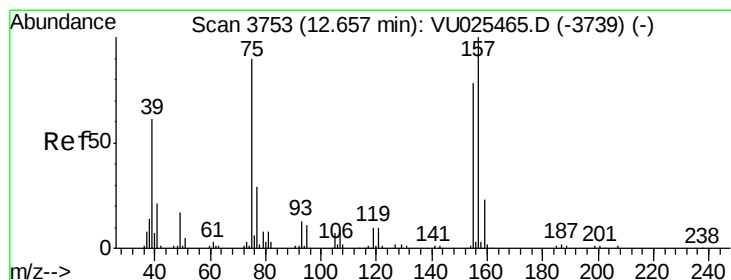
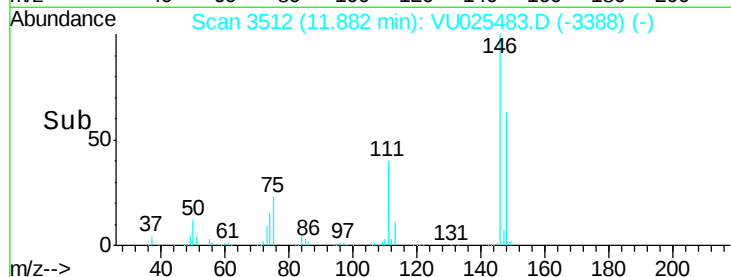
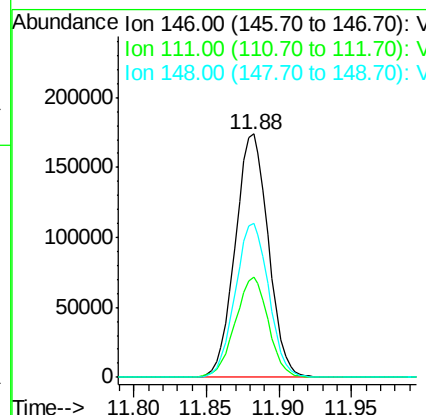
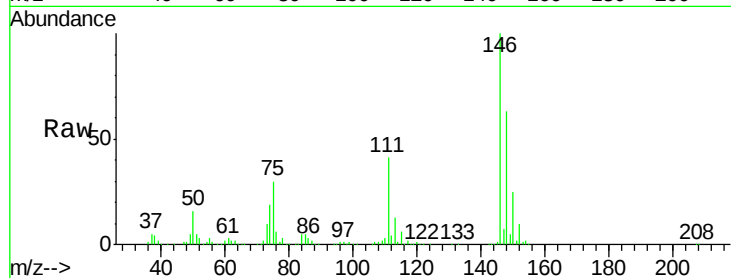




#65
 1,2-Dichlorobenzene
 Concen: 46.838 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. 0.00 min
 Lab File: VU025483.D
 Acq: 18 Jul 2018 01:58

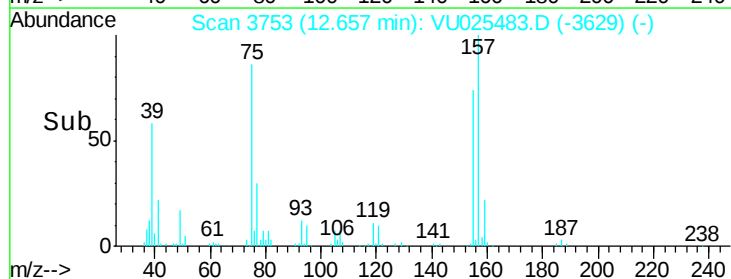
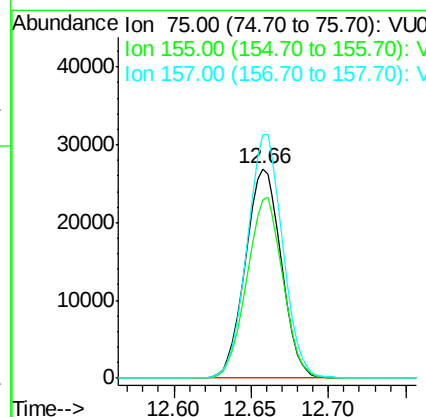
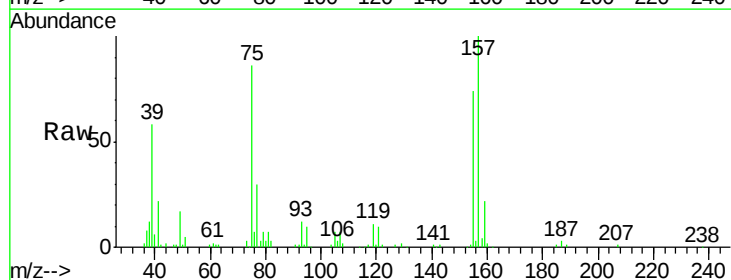
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

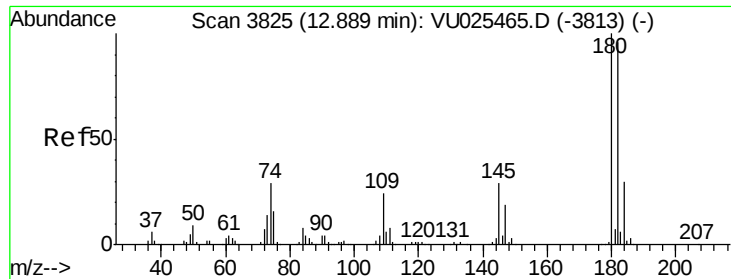
Tgt Ion:146 Resp: 275999
 Ion Ratio Lower Upper
 146 100
 111 41.3 33.8 50.6
 148 63.3 51.5 77.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 39.466 ug/L
 RT: 12.66 min Scan# 3753
 Delta R.T. 0.00 min
 Lab File: VU025483.D
 Acq: 18 Jul 2018 01:58

Tgt Ion: 75 Resp: 43520
 Ion Ratio Lower Upper
 75 100
 155 85.4 67.4 101.0
 157 116.1 87.9 131.9

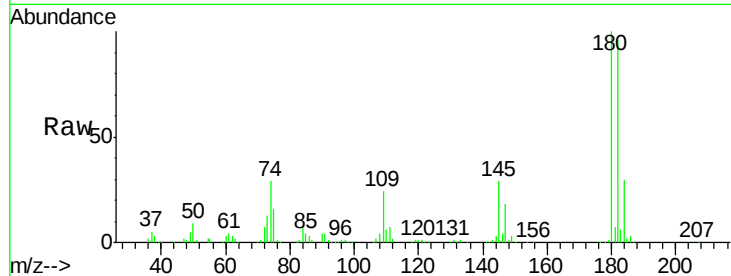




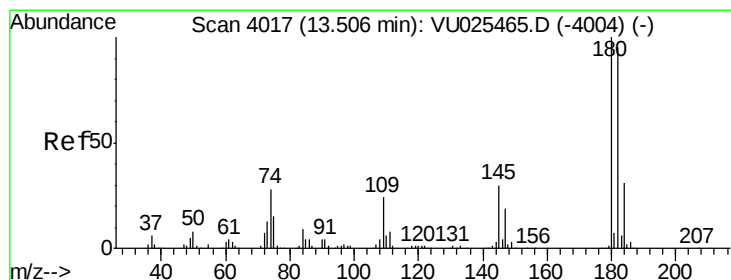
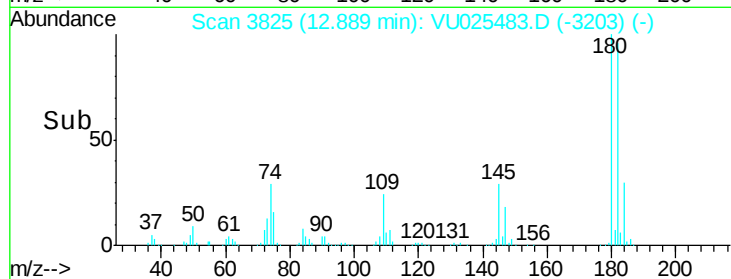
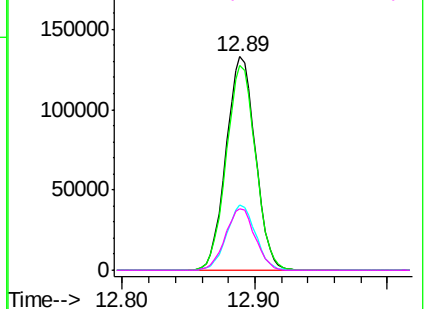
#67
 1,3,5-Trichlorobenzene
 Concen: 47.546 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. 0.00 min
 Lab File: VU025483.D
 Acq: 18 Jul 2018 01:58

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Tgt Ion:180 Resp: 203943
 Ion Ratio Lower Upper
 180 100
 182 96.1 75.1 112.7
 184 30.0 24.6 36.8
 145 29.0 23.1 34.7

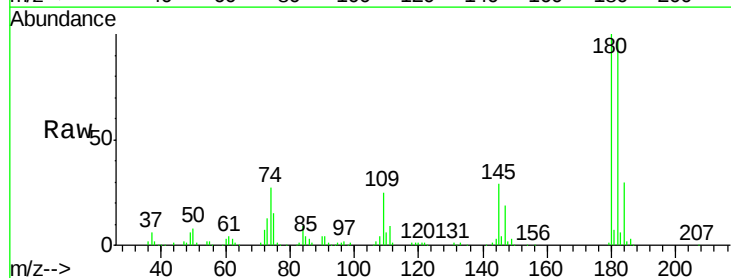


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

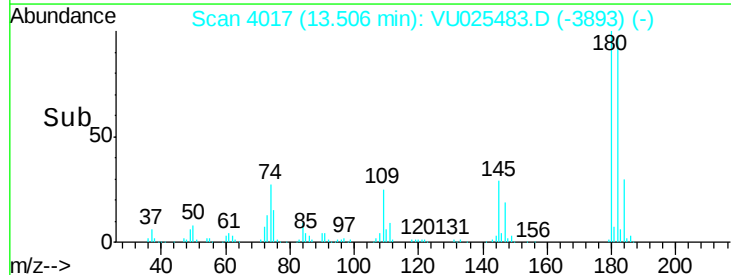
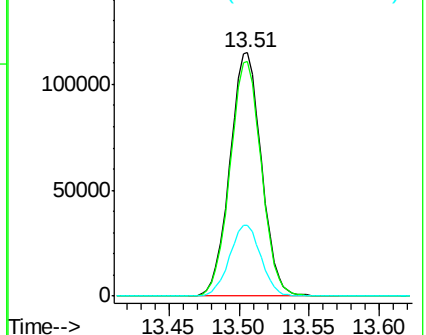


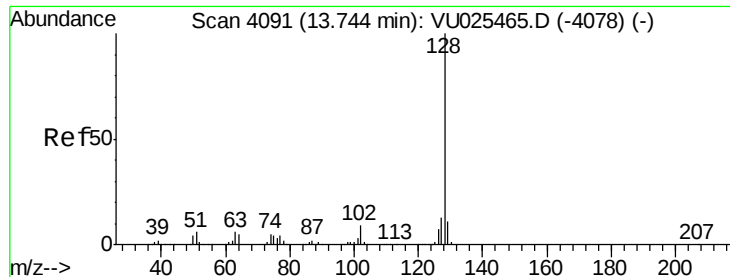
#68
 1,2,4-trichlorobenzene
 Concen: 47.046 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU025483.D
 Acq: 18 Jul 2018 01:58

Tgt Ion:180 Resp: 179943
 Ion Ratio Lower Upper
 180 100
 182 95.9 76.6 115.0
 145 29.2 23.4 35.2



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

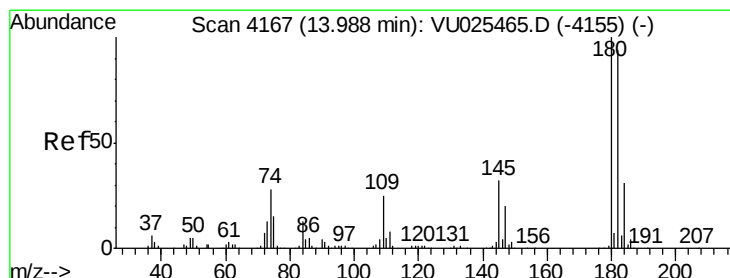
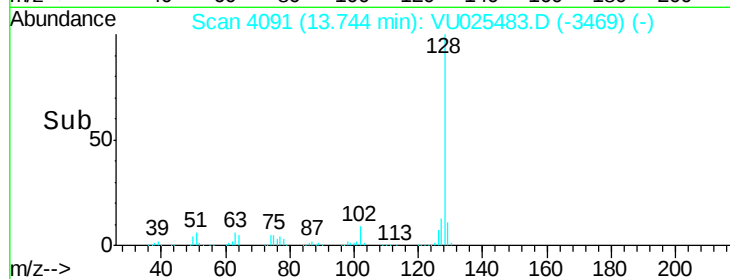
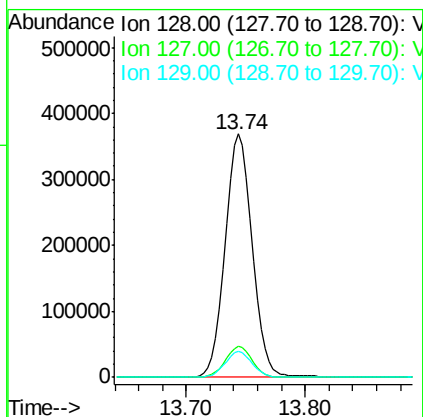
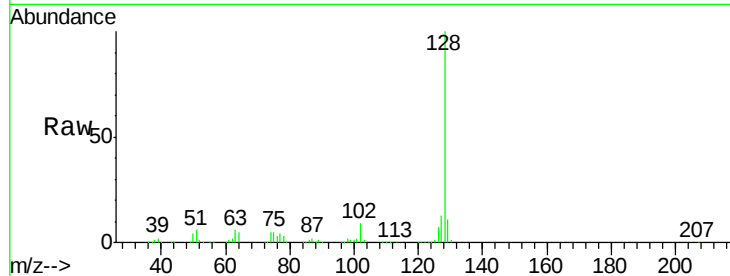




#69
Naphthalene
Concen: 44.040 ug/L
RT: 13.74 min Scan# 4091
Delta R.T. 0.00 min
Lab File: VU025483.D
Acq: 18 Jul 2018 01:58

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Tgt Ion:128 Resp: 582840
Ion Ratio Lower Upper
128 100
127 12.6 10.5 15.7
129 10.6 8.9 13.3



#70
1,2,3-Trichlorobenzene
Concen: 46.198 ug/L
RT: 13.99 min Scan# 4167
Delta R.T. 0.00 min
Lab File: VU025483.D
Acq: 18 Jul 2018 01:58

Tgt Ion:180 Resp: 190572
Ion Ratio Lower Upper
180 100
182 96.8 75.8 113.8
145 32.0 25.3 37.9

