

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071618\
 Data File : VU025451.D
 Acq On : 17 Jul 2018 02:15
 Operator : MD/SY
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

Quant Time: Jul 17 03:58:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jul 17 02:54:19 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	338785	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	318077	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	159360	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	81908	44.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.92%
7) Chloroethane-d5	1.68	69	71993	48.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.26%
11) 1,1-Dichloroethene-d2	2.27	63	186664	47.42	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.84%
21) 2-Butanone-d5	4.18	46	185741	100.91	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.91%
24) Chloroform-d	4.65	84	212889	49.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.52%
26) 1,2-Dichloroethane-d4	5.31	65	143527	48.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.34%
32) Benzene-d6	5.35	84	394316	49.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.70%
36) 1,2-Dichloropropane-d6	6.33	67	129654	50.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.32%
41) Toluene-d8	7.57	98	380414	48.45	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.90%
43) trans-1,3-Dichloropropene-	7.85	79	57471	43.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.64%
47) 2-Hexanone-d5	8.31	63	143283	103.91	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.91%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	199917	50.37	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.74%
64) 1,2-Dichlorobenzene-d4	11.86	152	163988	49.25	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.50%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	141753	47.765	ug/L 99
3) Chloromethane	1.33	50	121432	38.282	ug/L 97
5) Vinyl chloride	1.40	62	117641	45.478	ug/L 98
6) Bromomethane	1.62	94	24310	35.304	ug/L 95
8) Chloroethane	1.70	64	74439	48.969	ug/L 100
9) Trichlorofluoromethane	1.89	101	148033	41.603	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	103499	47.238	ug/L 99
12) 1,1-Dichloroethene	2.28	96	93409	46.977	ug/L 93
13) Acetone	2.32	43	125362	64.698	ug/L 97
14) Carbon disulfide	2.48	76	306698	49.059	ug/L 100
15) Methyl Acetate	2.62	43	142018	49.306	ug/L 99
16) Methylene chloride	2.70	84	119709	46.536	ug/L 97
17) trans-1,2-Dichloroethene	2.98	96	107991	48.748	ug/L 98
18) Methyl tert-butyl Ether	3.00	73	379971	48.768	ug/L 100
19) 1,1-Dichloroethane	3.45	63	210576	48.870	ug/L 99
20) cis-1,2-Dichloroethene	4.23	96	136006	52.318	ug/L 98
22) 2-Butanone	4.26	43	203939	87.392	ug/L 100

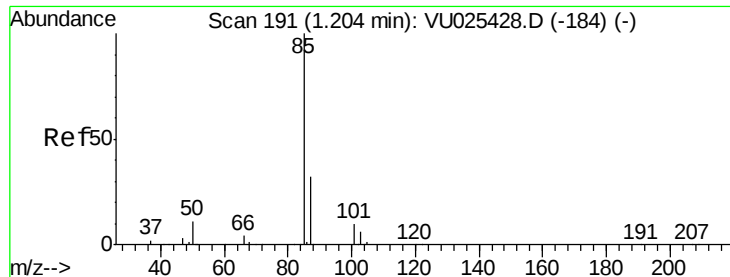
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071618\
 Data File : VU025451.D
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 Quant Title : VOC Analysis
 QLast Update : Tue Jul 17 02:54:19 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	57387	47.066	ug/L	98
25) Chloroform	4.68	83	223641	49.068	ug/L	99
27) 1,2-Dichloroethane	5.41	62	184249	49.173	ug/L	100
29) Cyclohexane	5.00	56	181079	48.445	ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	202376	49.181	ug/L	99
31) Carbon tetrachloride	5.14	117	177801	49.166	ug/L	98
33) Benzene	5.39	78	453357	49.176	ug/L	100
34) Trichloroethene	6.19	95	120454	48.617	ug/L	98
35) Methylcyclohexane	6.42	83	186159	46.978	ug/L	99
37) 1,2-Dichloropropane	6.44	63	125920	49.558	ug/L	100
38) Bromodichloromethane	6.76	83	163743	49.916	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	170408	43.819	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	396632	100.034	ug/L	99
42) Toluene	7.64	91	491722	49.321	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	157302	43.746	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	118757	48.613	ug/L	98
46) Tetrachloroethene	8.23	164	100361	48.878	ug/L	99
48) 2-Hexanone	8.36	43	316241	92.469	ug/L	99
49) Dibromochloromethane	8.48	129	133230	50.637	ug/L	98
50) 1,2-Dibromoethane	8.59	107	132748	50.057	ug/L	96
51) Chlorobenzene	9.12	112	330448	48.416	ug/L	100
52) Ethylbenzene	9.25	91	547718	48.277	ug/L	99
53) m,p-Xylene	9.38	106	211800	48.671	ug/L	100
54) o-xylene	9.78	106	212964	48.297	ug/L	99
55) Styrene	9.80	104	349965	48.502	ug/L	99
56) Isopropylbenzene	10.17	105	556324	48.800	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	210169	48.555	ug/L	99
59) 1,2,3-Trichloropropane	10.50	75	173226	48.484	ug/L	100
61) Bromoform	9.96	173	97438	52.893	ug/L	100
62) 1,3-Dichlorobenzene	11.42	146	256573	48.516	ug/L	100
63) 1,4-Dichlorobenzene	11.51	146	255371	48.134	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	270323	48.477	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.66	75	49798	51.368	ug/L	98
67) 1,3,5-Trichlorobenzene	12.89	180	190341	48.130	ug/L	100
68) 1,2,4-trichlorobenzene	13.51	180	163547	47.816	ug/L	99
69) Naphthalene	13.74	128	602185	50.532	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	183523	49.926	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 47.765 ug/L

RT: 1.20 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

Instrument :

MSVOA_U

ClientSampleId :

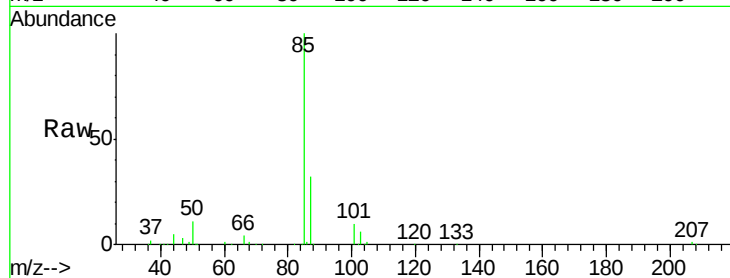
VSTD05058

Tgt Ion: 85 Resp: 141753

Ion Ratio Lower Upper

85 100

87 32.0 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VU025428.D (-184) (-)

Ion 87.00 (86.70 to 87.70): VU025428.D (-184) (-)

1.20

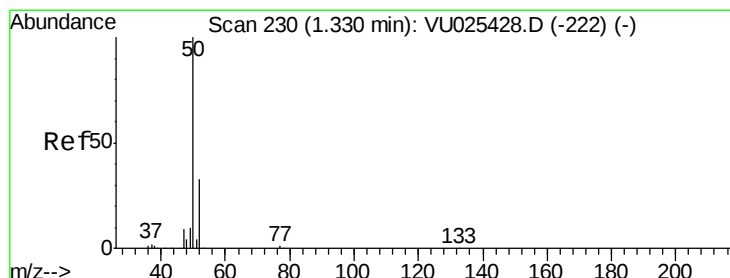
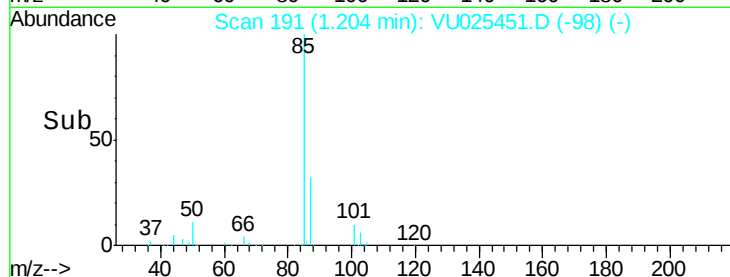
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 38.282 ug/L

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025451.D

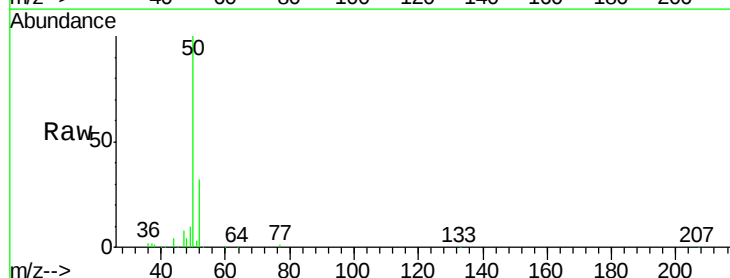
Acq: 17 Jul 2018 02:15

Tgt Ion: 50 Resp: 121432

Ion Ratio Lower Upper

50 100

52 32.0 23.5 43.7



Abundance Ion 50.00 (49.70 to 50.70): VU025428.D (-222) (-)

Ion 52.00 (51.70 to 52.70): VU025428.D (-222) (-)

1.33

120000

100000

80000

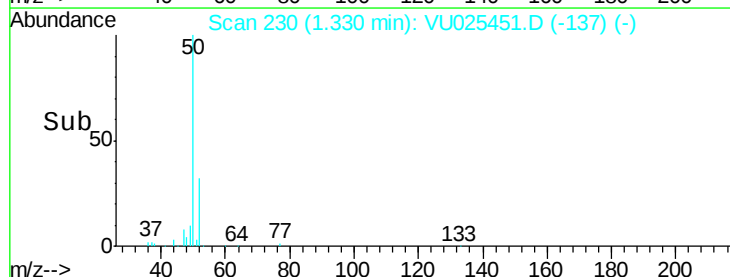
60000

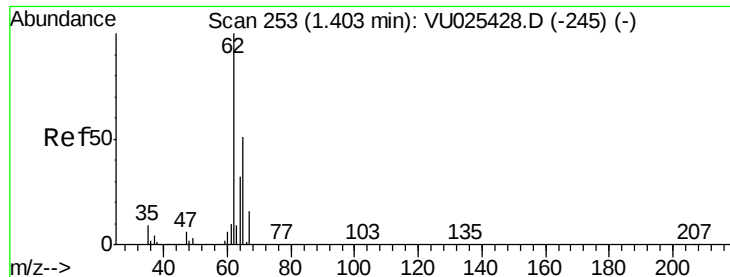
40000

20000

0

Time-->





#5

Vinyl chloride

Concen: 45.478 ug/L

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

Instrument :

MSVOA_U

ClientSampleId :

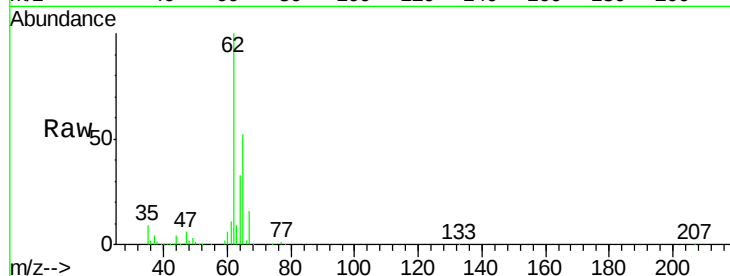
VSTD05058

Tgt Ion: 62 Resp: 117641

Ion Ratio Lower Upper

62 100

64 33.2 22.6 42.0



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

120000

100000

80000

60000

40000

20000

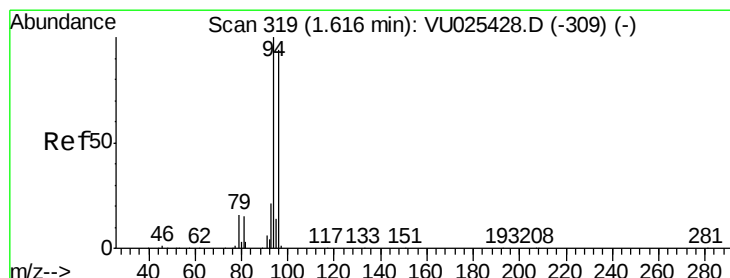
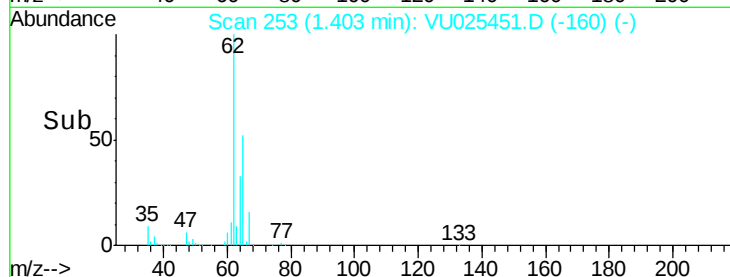
0

1.35

1.40

1.45

Time-->



#6

Bromomethane

Concen: 35.304 ug/L

RT: 1.62 min Scan# 320

Delta R.T. 0.00 min

Lab File: VU025451.D

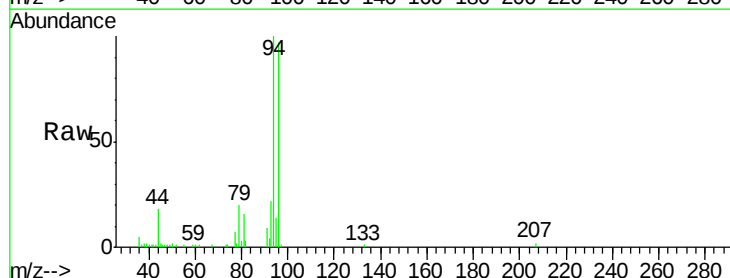
Acq: 17 Jul 2018 02:15

Tgt Ion: 94 Resp: 24310

Ion Ratio Lower Upper

94 100

96 96.6 64.2 119.2



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

20000

15000

10000

5000

0

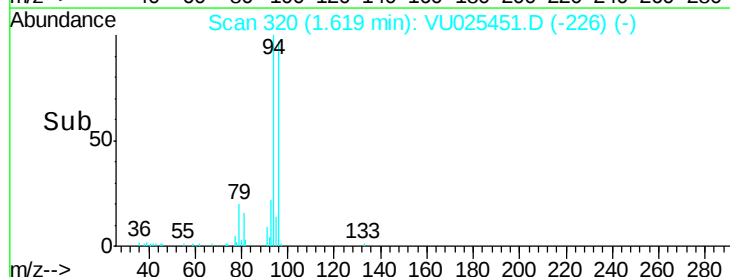
1.60

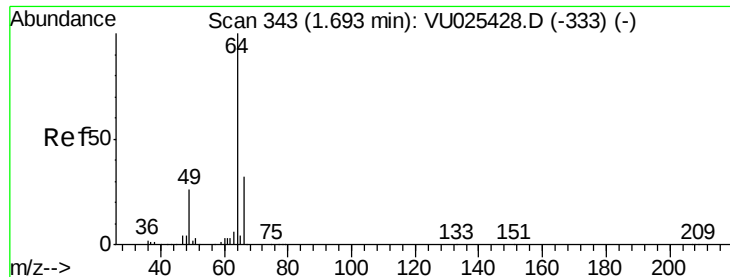
1.62

1.65

1.70

Time-->





#8

Chloroethane

Concen: 48.969 ug/L

RT: 1.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

Instrument :

MSVOA_U

ClientSampleId :

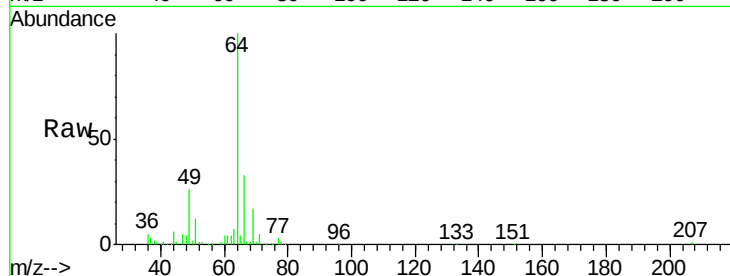
VSTD05058

Tgt Ion: 64 Resp: 74439

Ion Ratio Lower Upper

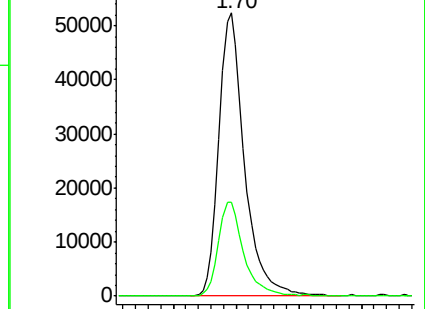
64 100

66 33.3 23.2 43.0

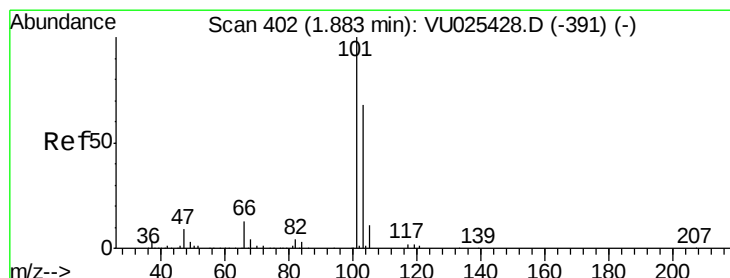
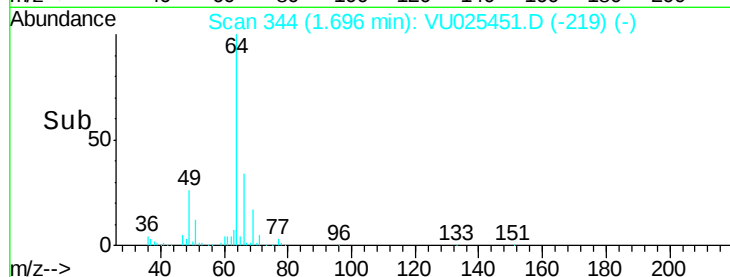


Abundance Ion 64.00 (63.70 to 64.70): VU025428.D (-333) (-)

Ion 66.00 (65.70 to 66.70): VU025451.D (-219) (-)



Time-->



#9

Trichlorofluoromethane

Concen: 41.603 ug/L

RT: 1.89 min Scan# 403

Delta R.T. 0.00 min

Lab File: VU025451.D

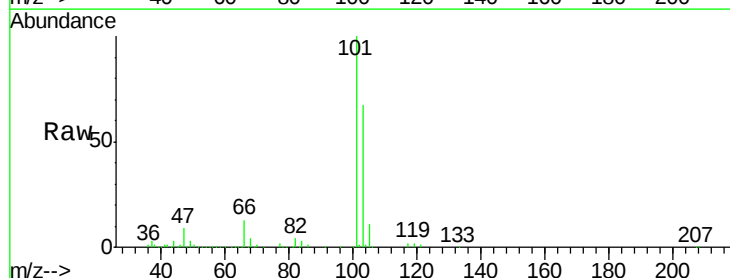
Acq: 17 Jul 2018 02:15

Tgt Ion: 101 Resp: 148033

Ion Ratio Lower Upper

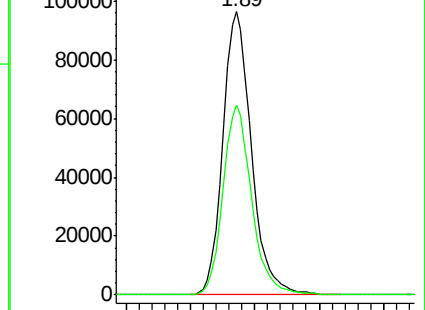
101 100

103 67.1 52.3 78.5

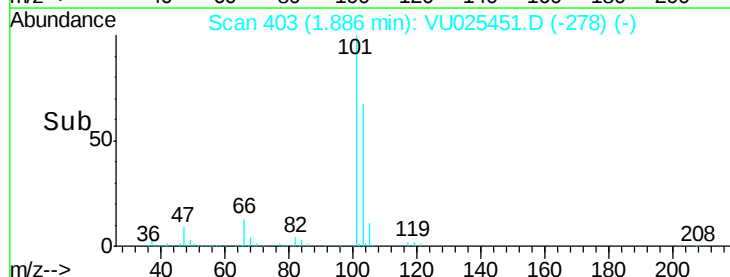


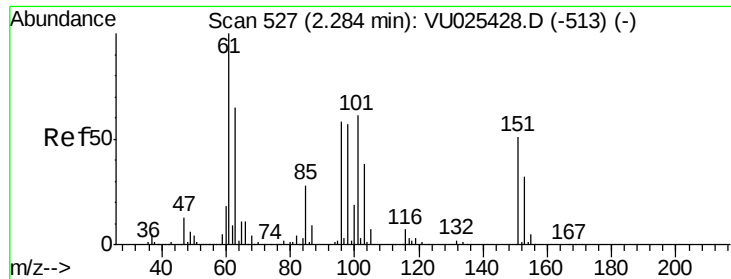
Abundance Ion 101.00 (100.70 to 101.70): VU025428.D (-391) (-)

Ion 103.00 (102.70 to 103.70): VU025451.D (-278) (-)



Time-->





#10

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

Concen: 47.238 ug/L

RT: 2.28 min Scan# 527

Delta R.T. 0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05058

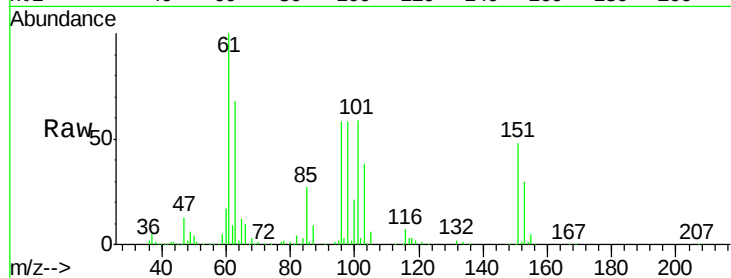
Tgt Ion: 101 Resp: 103499

Ion Ratio Lower Upper

101 100

85 44.2 34.7 52.1

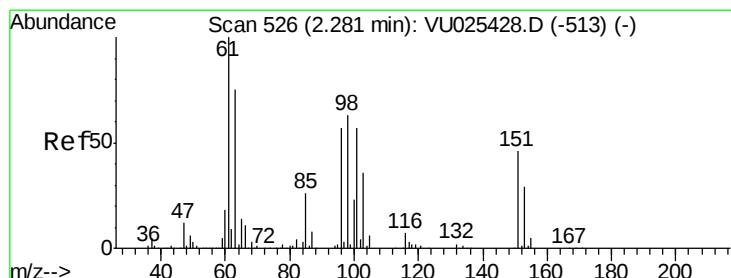
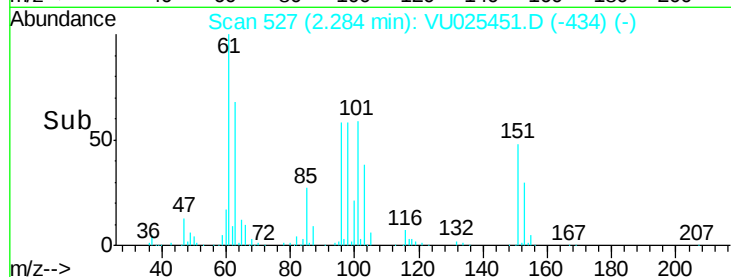
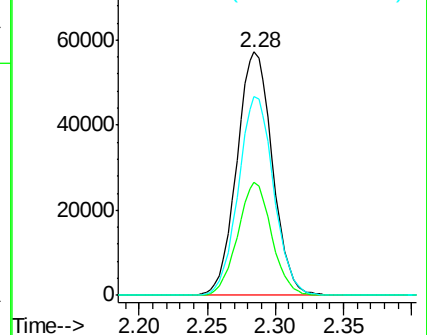
151 81.2 64.4 96.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 46.977 ug/L

RT: 2.28 min Scan# 527

Delta R.T. 0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

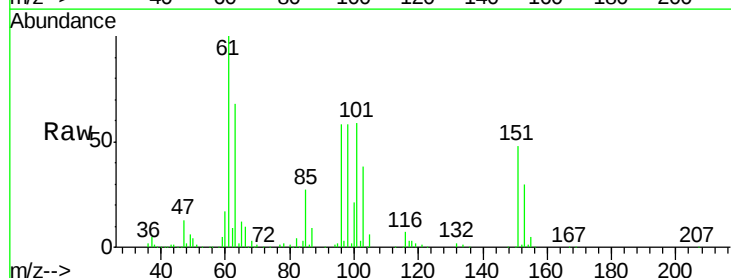
Tgt Ion: 96 Resp: 93409

Ion Ratio Lower Upper

96 100

61 173.0 125.9 233.9

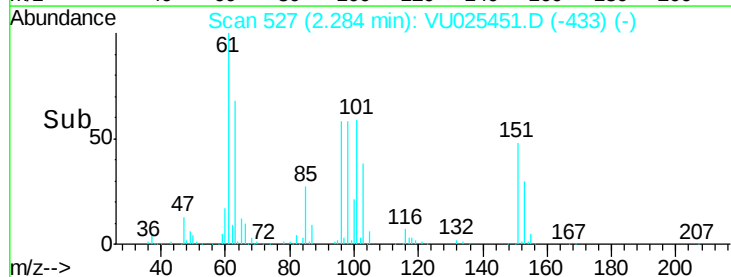
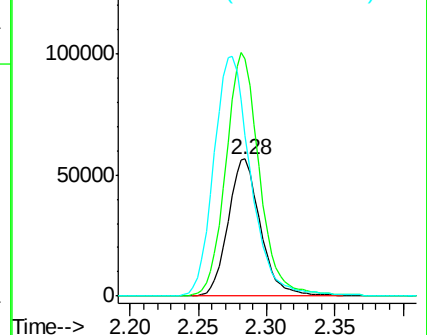
63 117.0 90.4 167.8

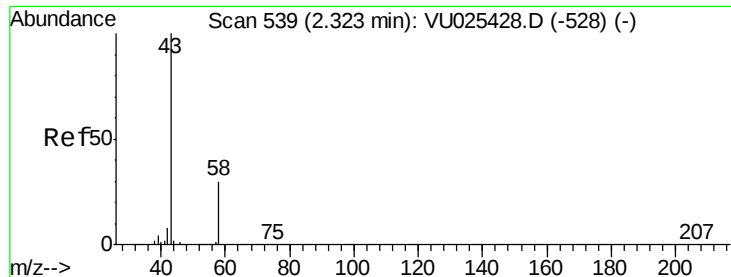


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 64.698 ug/L

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

Instrument :

MSVOA_U

ClientSampleId :

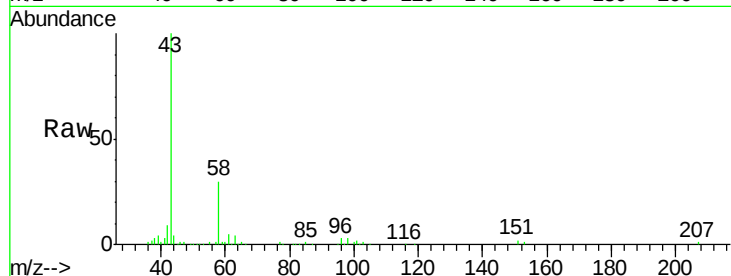
VSTD05058

Tgt Ion: 43 Resp: 125362

Ion Ratio Lower Upper

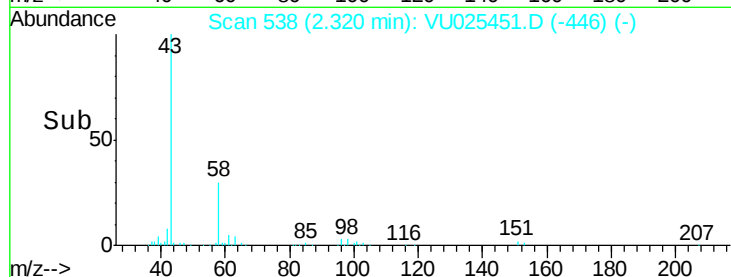
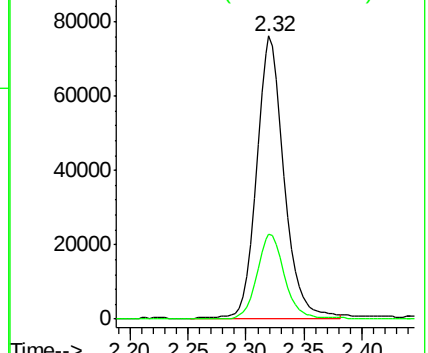
43 100

58 30.7 0.0 58.4



Abundance Ion 43.00 (42.70 to 43.70): VU025428.D (-528) (-)

Ion 58.00 (57.70 to 58.70): VU025428.D (-528) (-)



#14

Carbon disulfide

Concen: 49.059 ug/L

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU025451.D

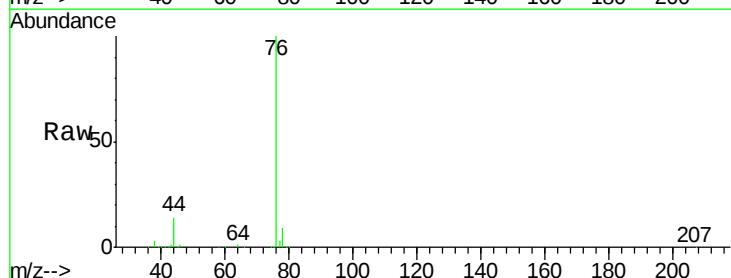
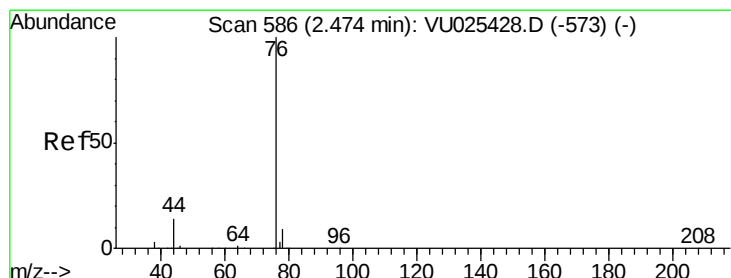
Acq: 17 Jul 2018 02:15

Tgt Ion: 76 Resp: 306698

Ion Ratio Lower Upper

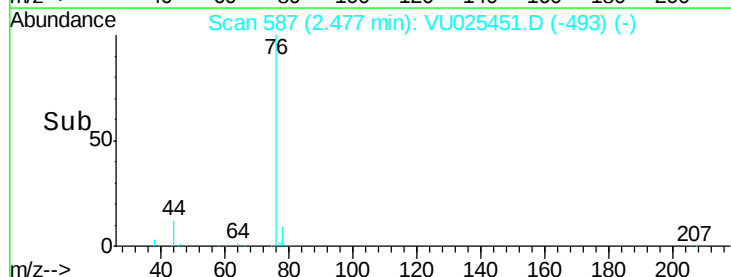
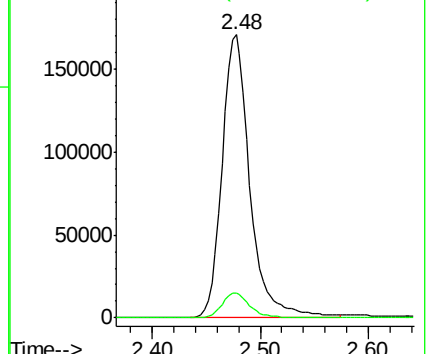
76 100

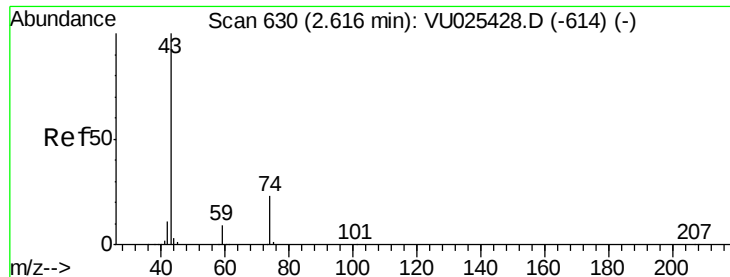
78 8.8 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU025428.D (-573) (-)

Ion 78.00 (77.70 to 78.70): VU025428.D (-573) (-)

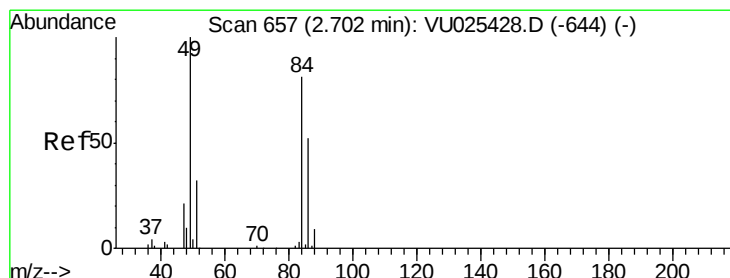
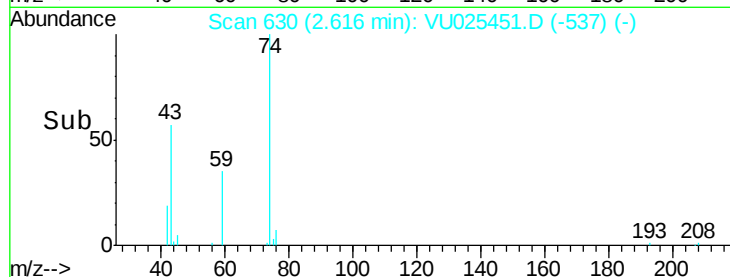
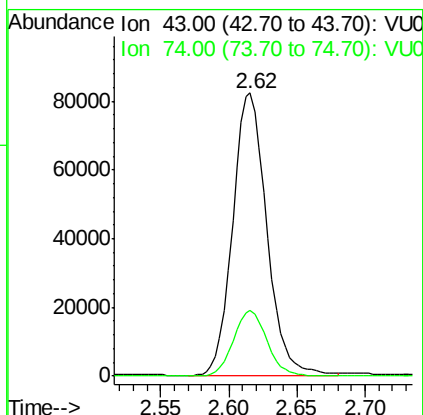
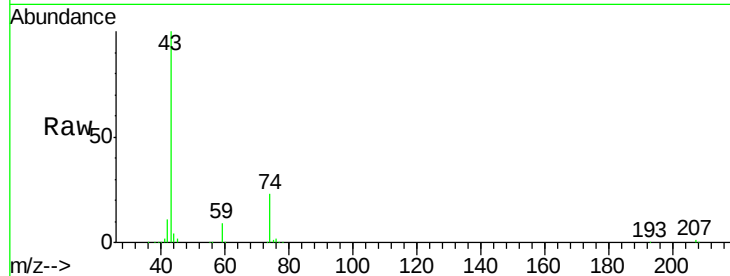




#15
Methyl Acetate
Concen: 49.306 ug/L
RT: 2.62 min Scan# 630
Delta R.T. 0.00 min
Lab File: VU025451.D
Acq: 17 Jul 2018 02:15

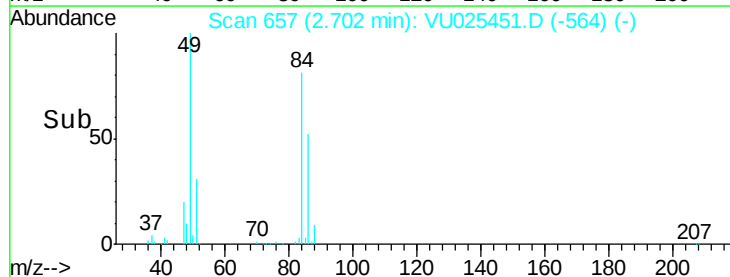
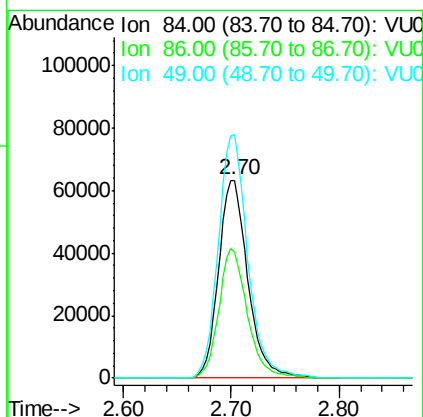
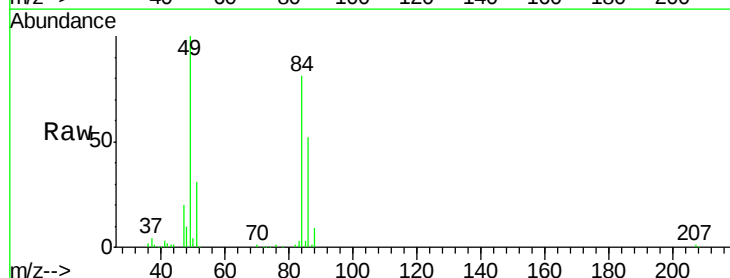
Instrument :
MSVOA_U
ClientSampleId :
VSTD05058

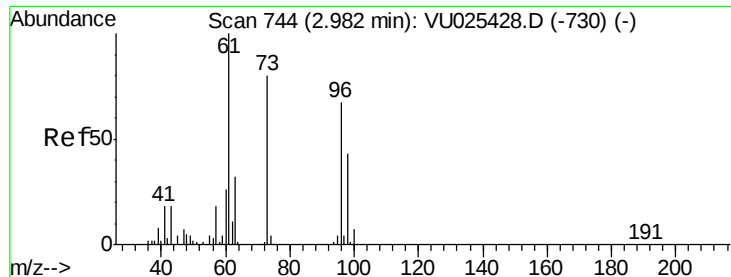
Tgt Ion: 43 Resp: 142018
Ion Ratio Lower Upper
43 100
74 23.0 18.8 28.2



#16
Methylene chloride
Concen: 46.536 ug/L
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU025451.D
Acq: 17 Jul 2018 02:15

Tgt Ion: 84 Resp: 119709
Ion Ratio Lower Upper
84 100
86 63.9 45.2 84.0
49 123.2 83.6 155.2





#17

trans-1,2-Dichloroethene

Concen: 48.748 ug/L

RT: 2.98 min Scan# 744

Delta R.T. 0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05058

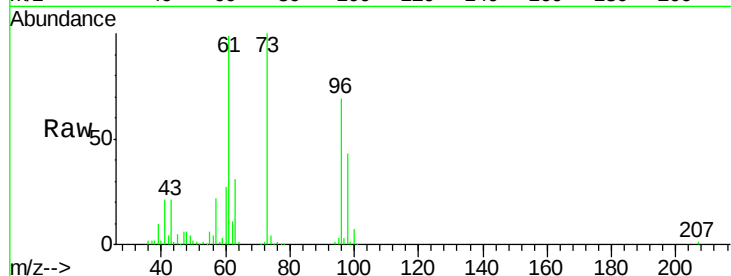
Tgt Ion: 96 Resp: 107991

Ion Ratio Lower Upper

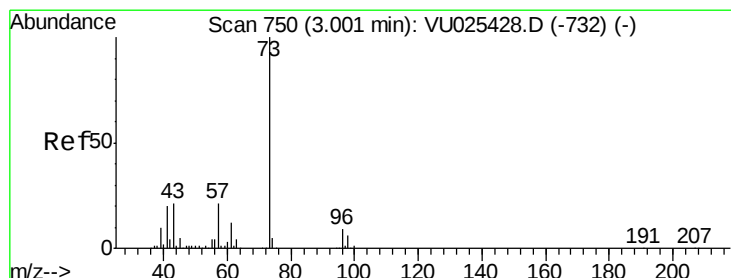
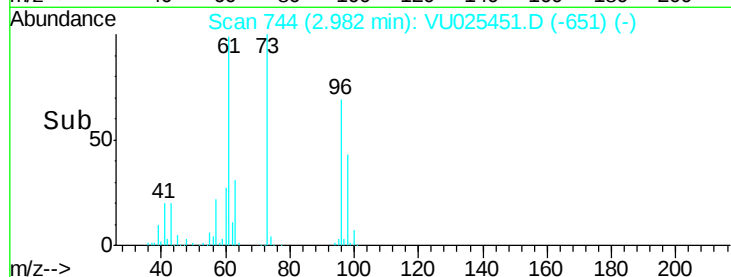
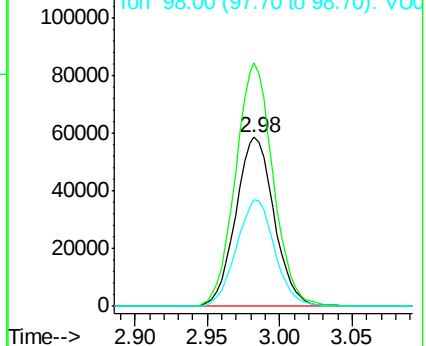
96 100

61 143.9 98.2 182.4

98 62.7 44.4 82.5



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 48.768 ug/L

RT: 3.00 min Scan# 749

Delta R.T. -0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

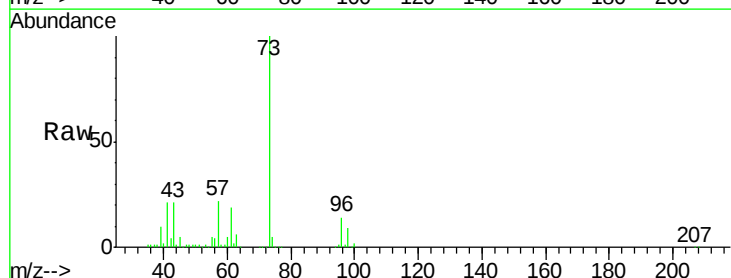
Tgt Ion: 73 Resp: 379971

Ion Ratio Lower Upper

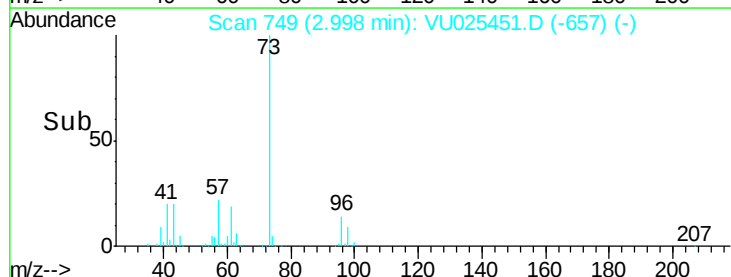
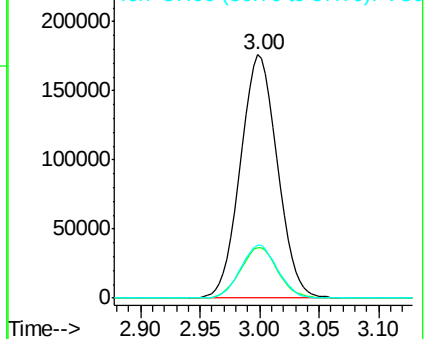
73 100

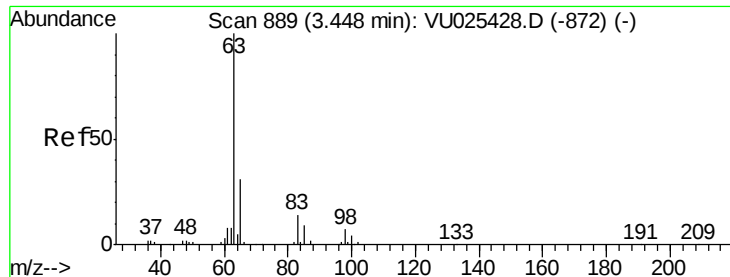
43 20.9 16.7 25.1

57 21.7 17.3 25.9



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0

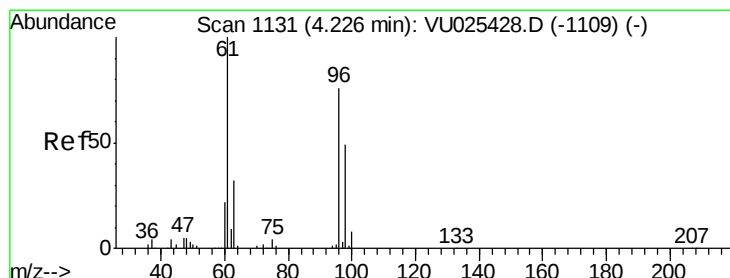
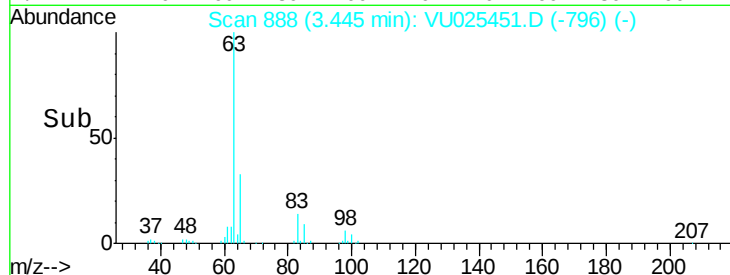
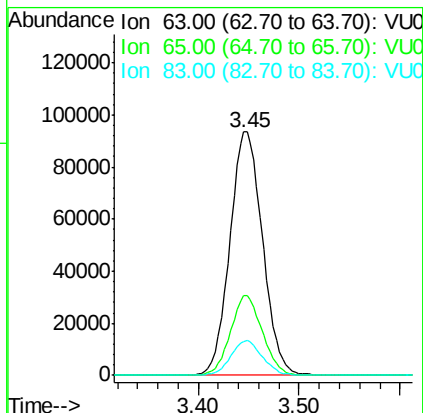
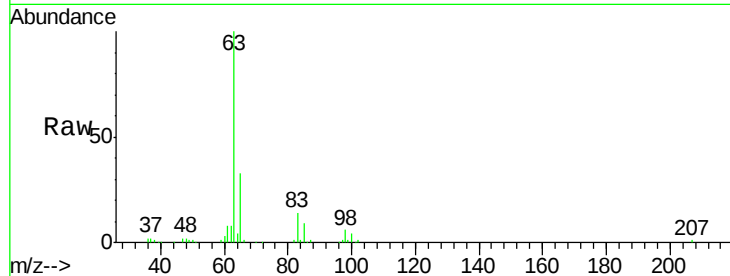




#19
 1,1-Dichloroethane
 Concen: 48.870 ug/L
 RT: 3.45 min Scan# 888
 Delta R.T. -0.00 min
 Lab File: VU025451.D
 Acq: 17 Jul 2018 02:15

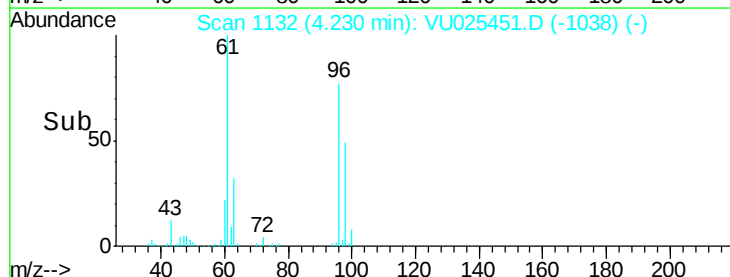
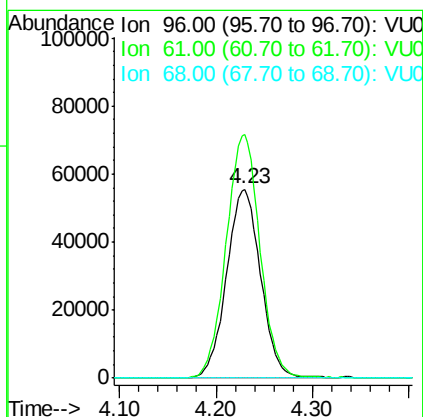
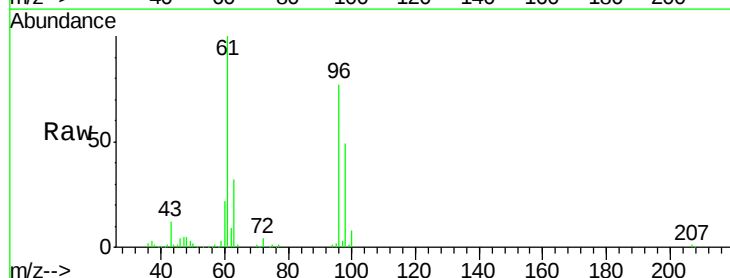
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

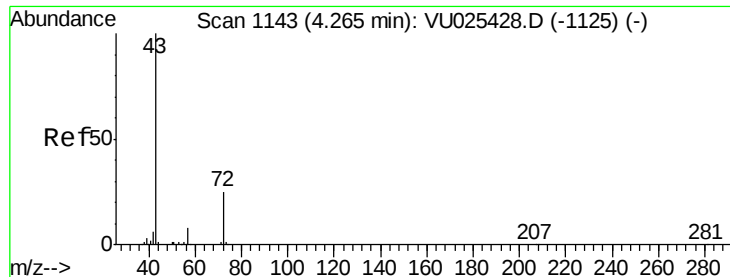
Tgt Ion: 63 Resp: 210576
 Ion Ratio Lower Upper
 63 100
 65 32.6 22.6 42.0
 83 14.0 9.6 17.8



#20
 cis-1,2-Dichloroethene
 Concen: 52.318 ug/L
 RT: 4.23 min Scan# 1132
 Delta R.T. 0.00 min
 Lab File: VU025451.D
 Acq: 17 Jul 2018 02:15

Tgt Ion: 96 Resp: 136006
 Ion Ratio Lower Upper
 96 100
 61 129.0 92.0 170.9
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 87.392 ug/L

RT: 4.26 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

Instrument :

MSVOA_U

ClientSampleId :

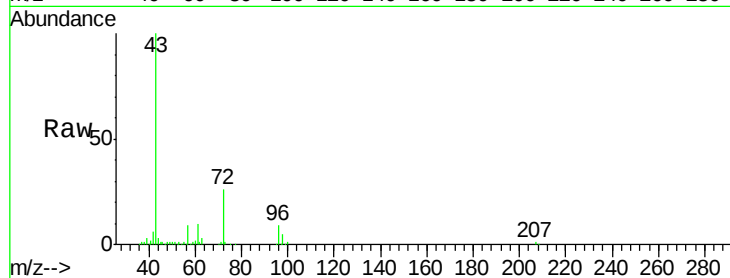
VSTD05058

Tgt Ion: 43 Resp: 203939

Ion Ratio Lower Upper

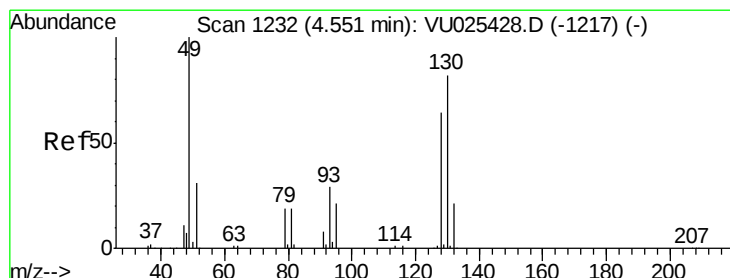
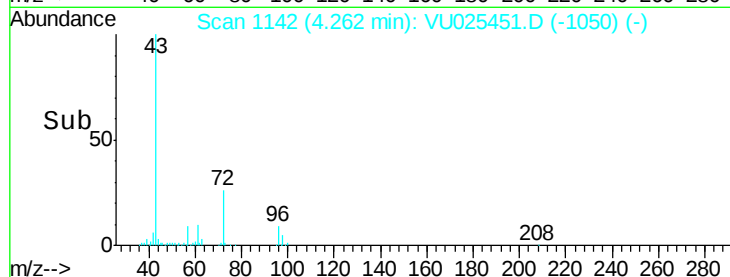
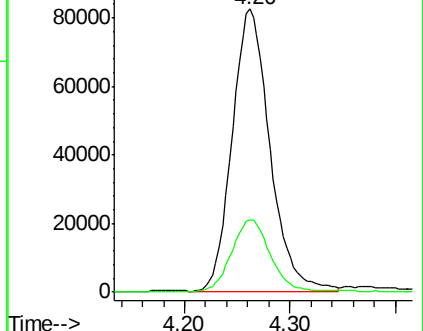
43 100

72 26.7 13.3 39.9



Abundance Ion 43.00 (42.70 to 43.70): VU025428.D (-1125) (-)

Ion 72.00 (71.70 to 72.70): VU025428.D (-1125) (-)



#23

Bromochloromethane

Concen: 47.066 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

Tgt Ion: 128 Resp: 57387

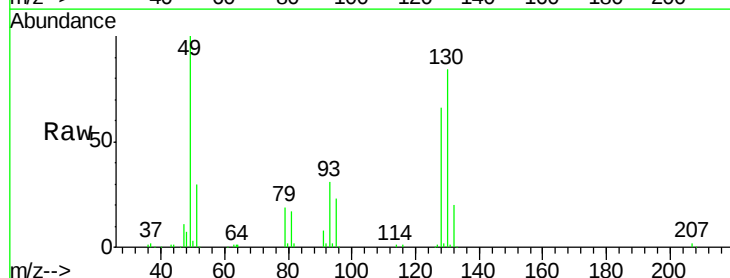
Ion Ratio Lower Upper

128 100

49 152.0 106.5 197.7

130 127.0 91.4 169.8

51 45.7 38.6 58.0

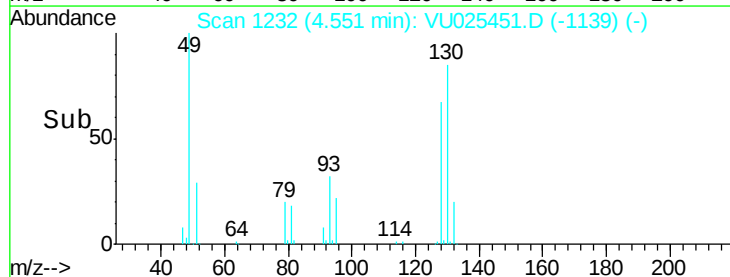
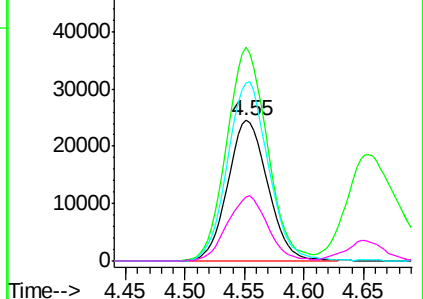


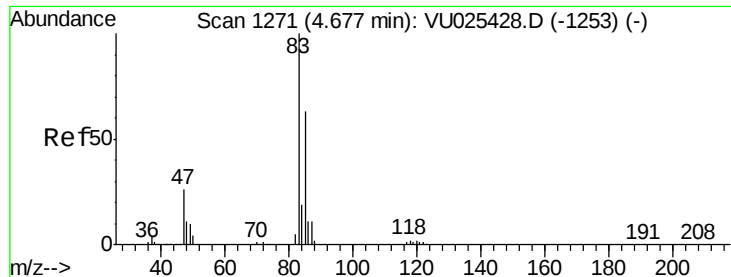
Abundance Ion 128.00 (127.70 to 128.70): VU025428.D (-1217) (-)

Ion 49.00 (48.70 to 49.70): VU025428.D (-1217) (-)

Ion 130.00 (129.70 to 130.70): VU025428.D (-1217) (-)

Ion 51.00 (50.70 to 51.70): VU025428.D (-1217) (-)





#25

Chloroform

Concen: 49.068 ug/L

RT: 4.68 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

Instrument :

MSVOA_U

ClientSampleId :

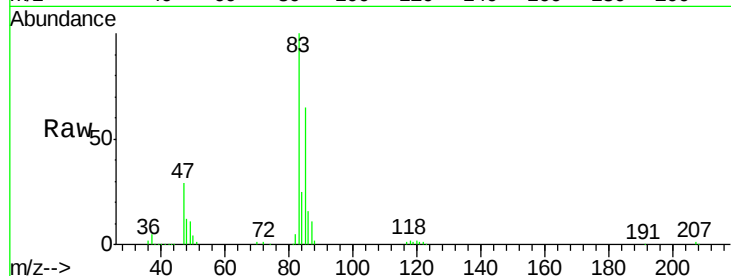
VSTD05058

Tgt Ion: 83 Resp: 223641

Ion Ratio Lower Upper

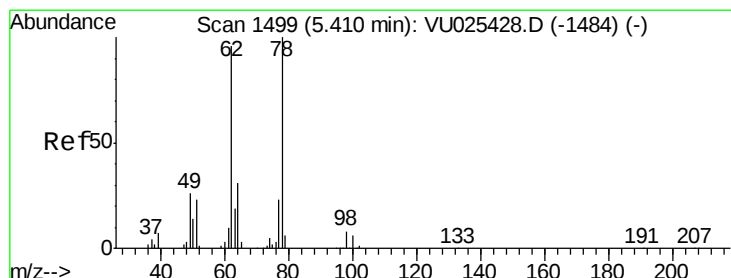
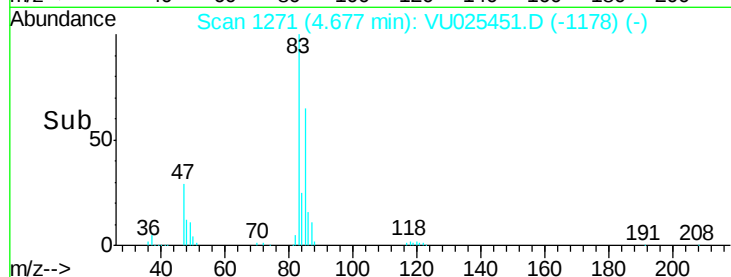
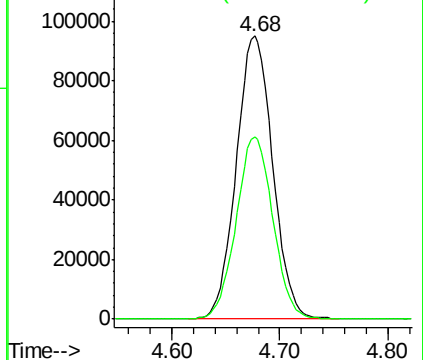
83 100

85 64.5 45.6 84.6



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#27

1,2-Dichloroethane

Concen: 49.173 ug/L

RT: 5.41 min Scan# 1498

Delta R.T. -0.00 min

Lab File: VU025451.D

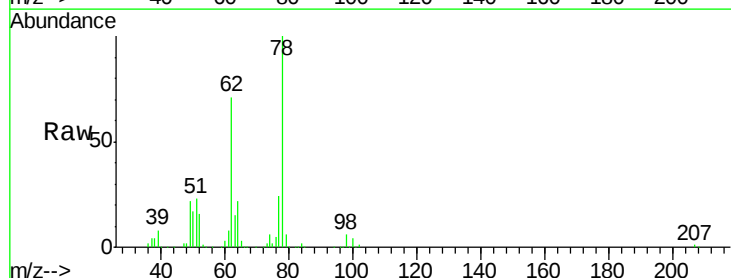
Acq: 17 Jul 2018 02:15

Tgt Ion: 62 Resp: 184249

Ion Ratio Lower Upper

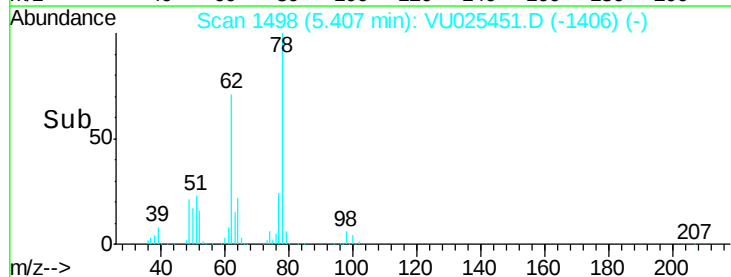
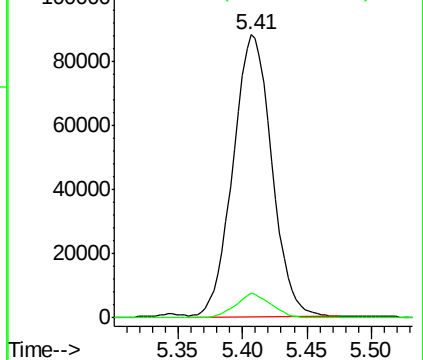
62 100

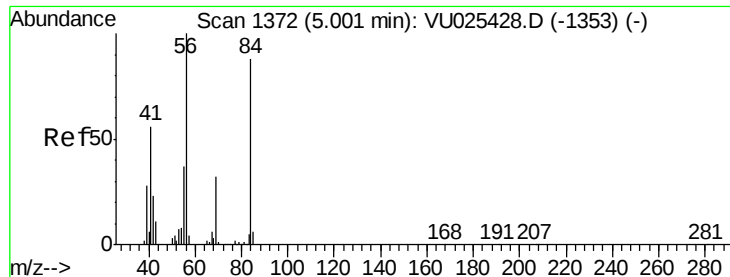
98 8.6 7.0 10.4



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

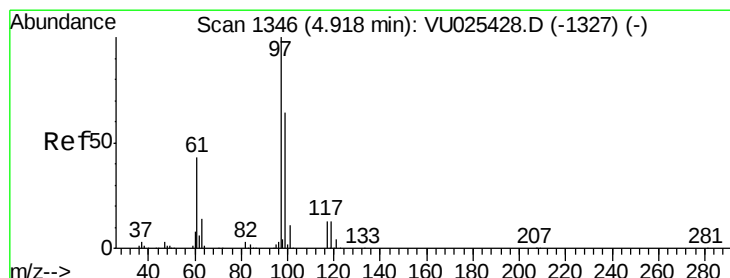
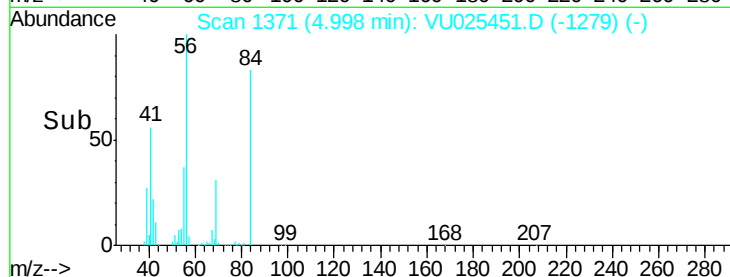
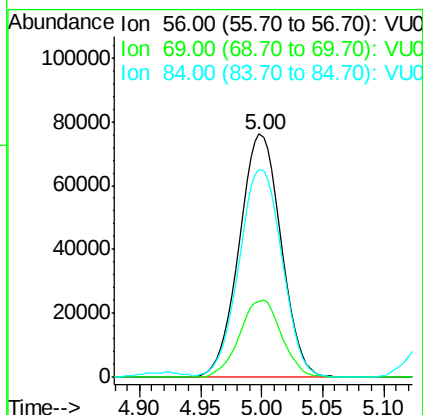
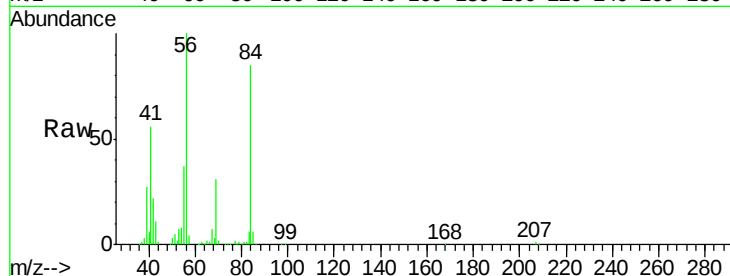




#29
Cyclohexane
Concen: 48.445 ug/L
RT: 5.00 min Scan# 1371
Delta R.T. -0.00 min
Lab File: VU025451.D
Acq: 17 Jul 2018 02:15

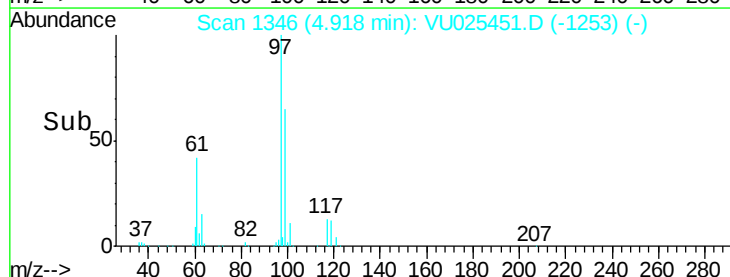
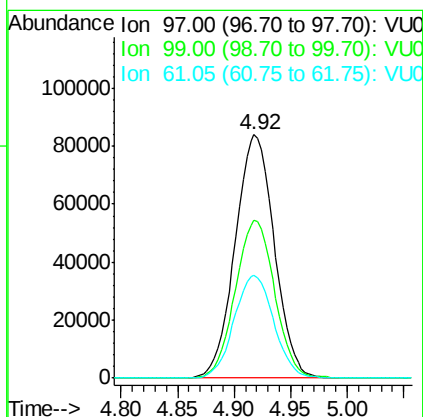
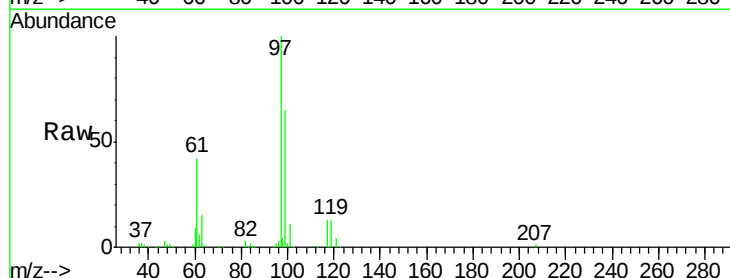
Instrument :
MSVOA_U
ClientSampleId :
VSTD05058

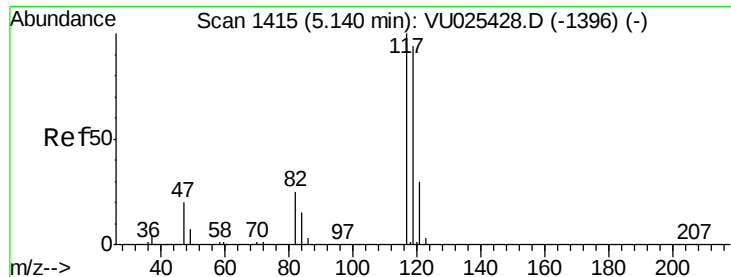
Tgt Ion: 56 Resp: 181079
Ion Ratio Lower Upper
56 100
69 31.9 24.8 37.2
84 88.1 70.0 105.0



#30
1,1,1-Trichloroethane
Concen: 49.181 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VU025451.D
Acq: 17 Jul 2018 02:15

Tgt Ion: 97 Resp: 202376
Ion Ratio Lower Upper
97 100
99 65.3 51.8 77.8
61 42.8 34.8 52.2





#31

Carbon tetrachloride

Concen: 49.166 ug/L

RT: 5.14 min Scan# 1414

Delta R.T. -0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

Instrument :

MSVOA_U

ClientSampleId :

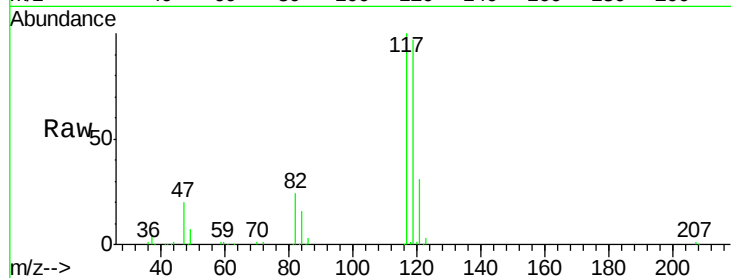
VSTD05058

Tgt Ion:117 Resp: 177801

Ion Ratio Lower Upper

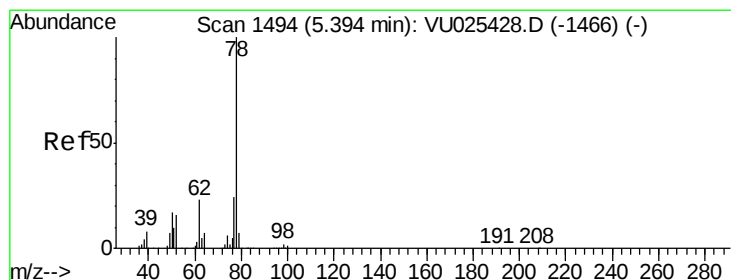
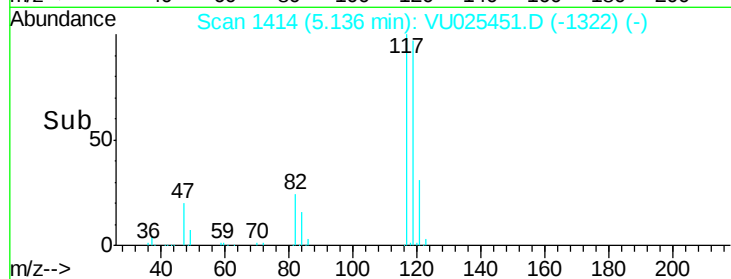
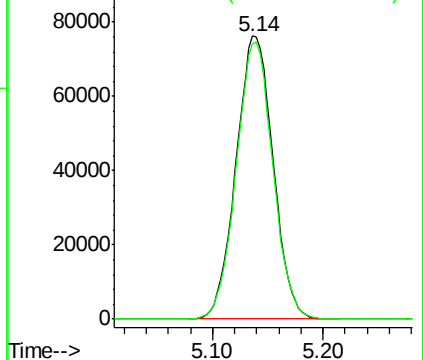
117 100

119 96.7 75.8 113.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 49.176 ug/L

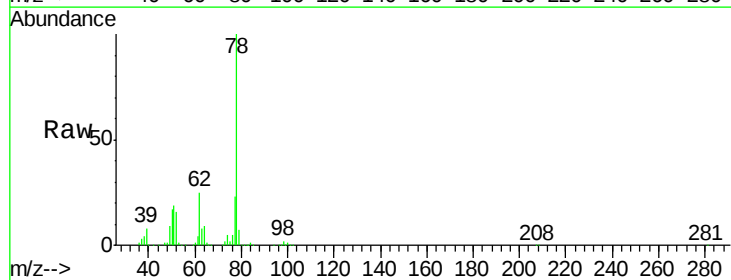
RT: 5.39 min Scan# 1494

Delta R.T. 0.00 min

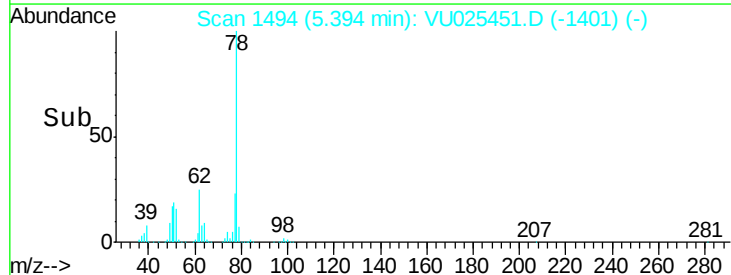
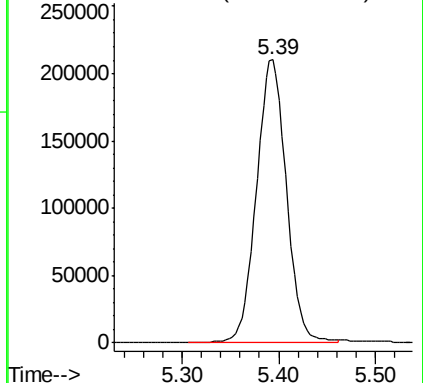
Lab File: VU025451.D

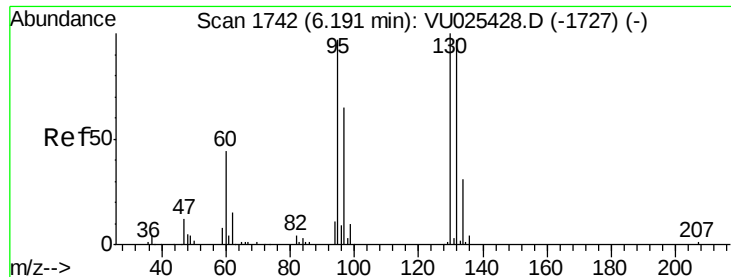
Acq: 17 Jul 2018 02:15

Tgt Ion: 78 Resp: 453357



Abundance Ion 78.00 (77.70 to 78.70): VU0

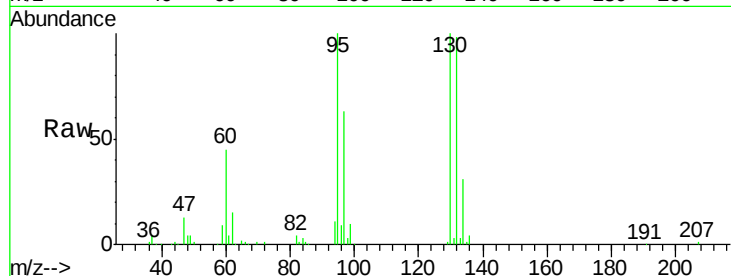




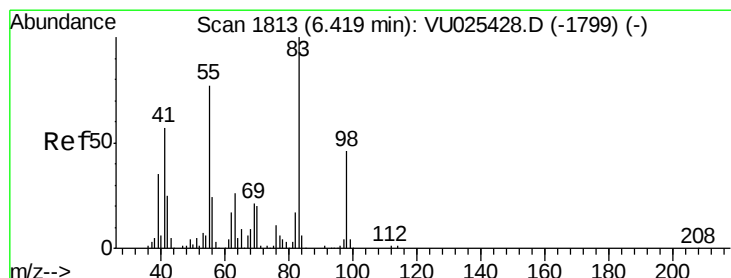
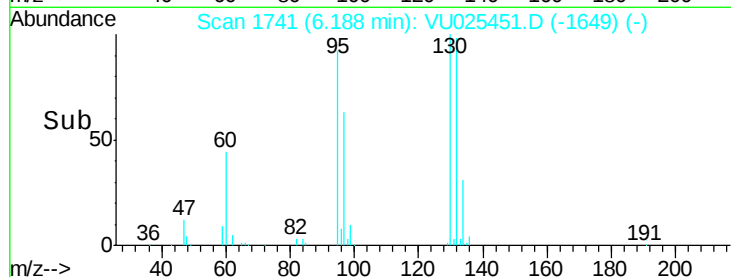
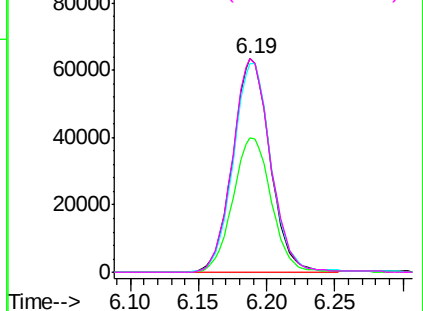
#34
 Trichloroethene
 Concen: 48.617 ug/L
 RT: 6.19 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VU025451.D
 Acq: 17 Jul 2018 02:15

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

Tgt Ion: 95 Resp: 120454
 Ion Ratio Lower Upper
 95 100
 97 63.2 44.3 82.3
 132 97.9 69.6 129.2
 130 100.1 72.4 134.5

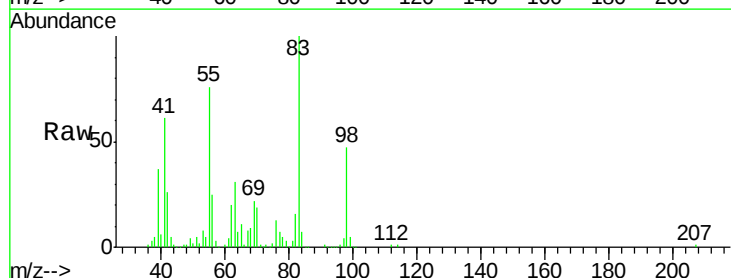


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

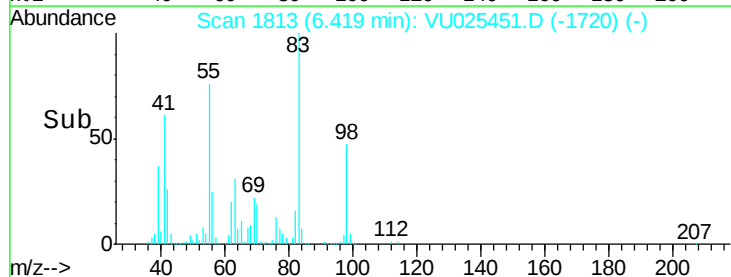
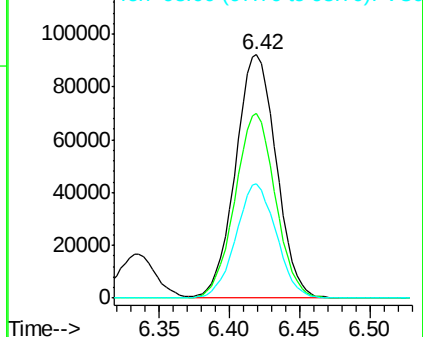


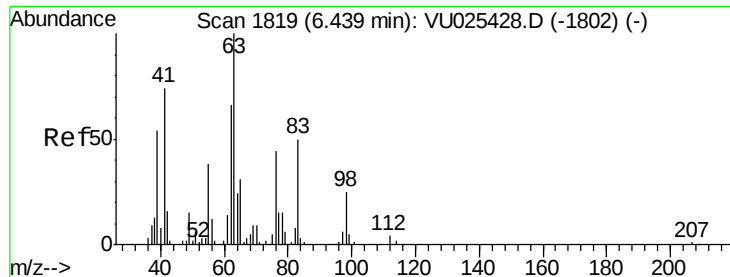
#35
 Methylcyclohexane
 Concen: 46.978 ug/L
 RT: 6.42 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: VU025451.D
 Acq: 17 Jul 2018 02:15

Tgt Ion: 83 Resp: 186159
 Ion Ratio Lower Upper
 83 100
 55 75.3 60.6 90.8
 98 46.6 37.6 56.4



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

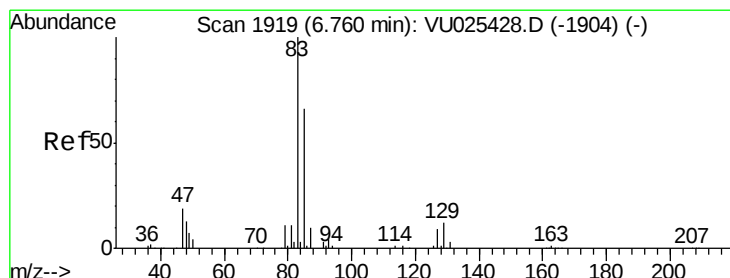
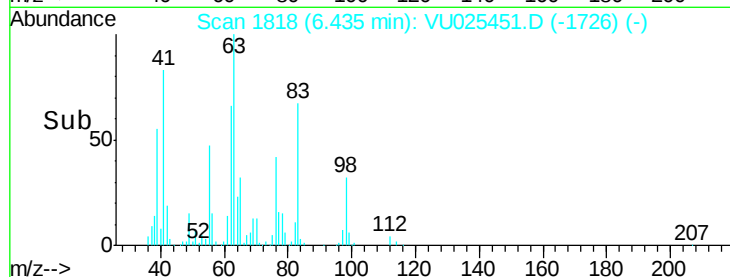
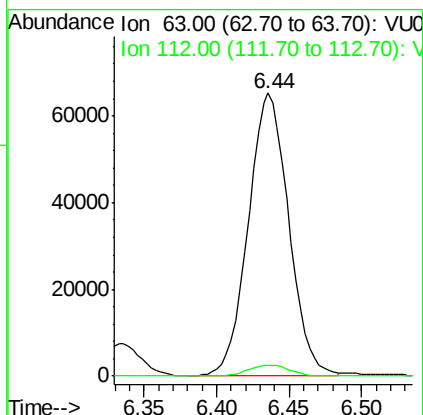
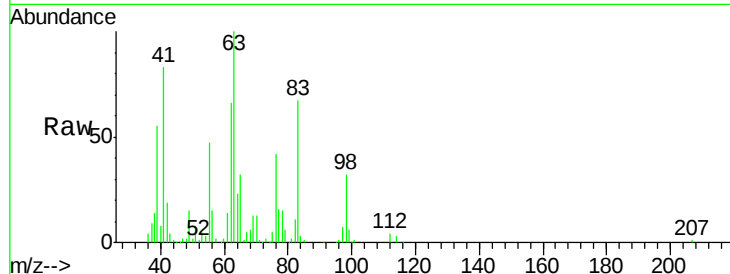




#37
 1,2-Dichloropropane
 Concen: 49.558 ug/L
 RT: 6.44 min Scan# 1818
 Delta R.T. -0.00 min
 Lab File: VU025451.D
 Acq: 17 Jul 2018 02:15

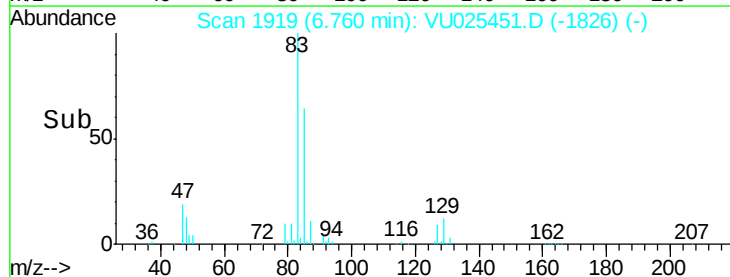
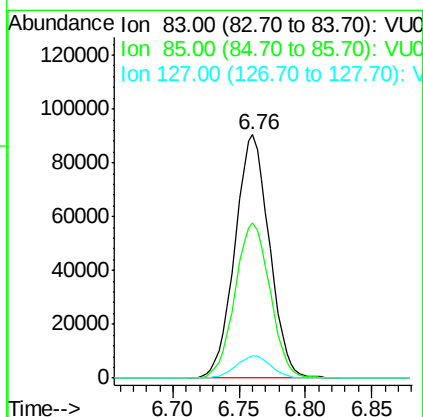
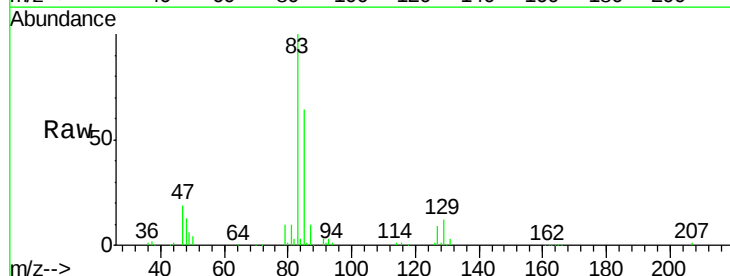
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

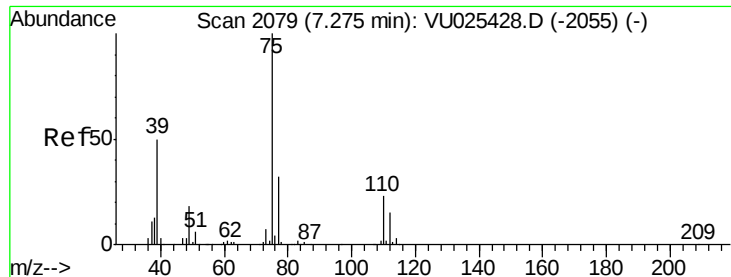
Tgt Ion: 63 Resp: 125920
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.3 4.9



#38
 Bromodichloromethane
 Concen: 49.916 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. 0.00 min
 Lab File: VU025451.D
 Acq: 17 Jul 2018 02:15

Tgt Ion: 83 Resp: 163743
 Ion Ratio Lower Upper
 83 100
 85 63.6 45.0 83.6
 127 9.1 7.4 11.0

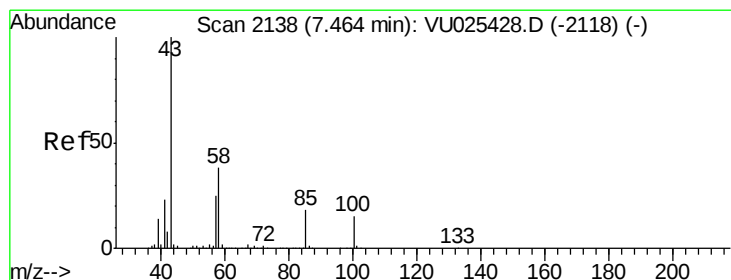
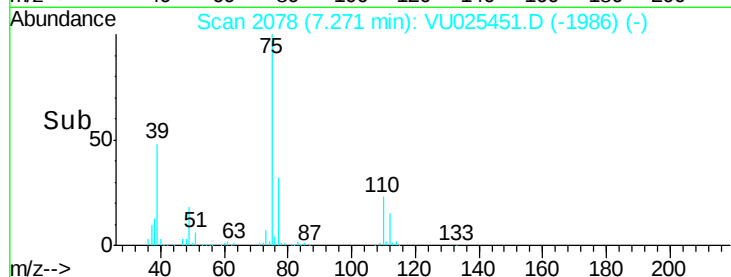
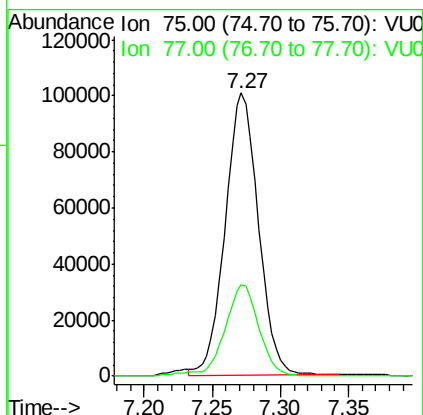
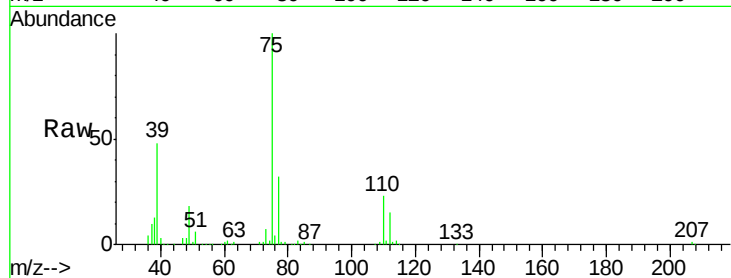




#39
 cis-1,3-Dichloropropene
 Concen: 43.819 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VU025451.D
 Acq: 17 Jul 2018 02:15

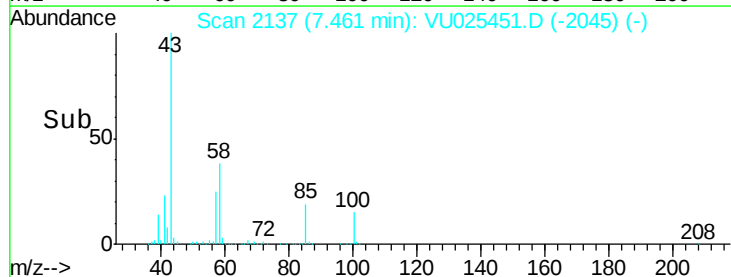
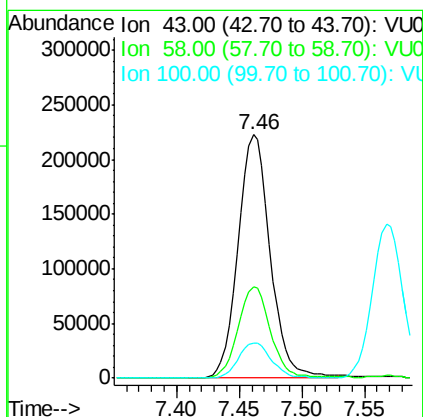
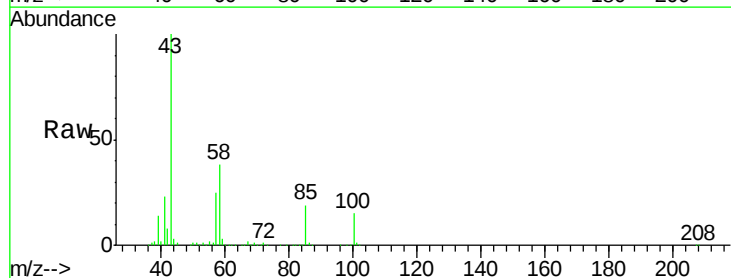
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

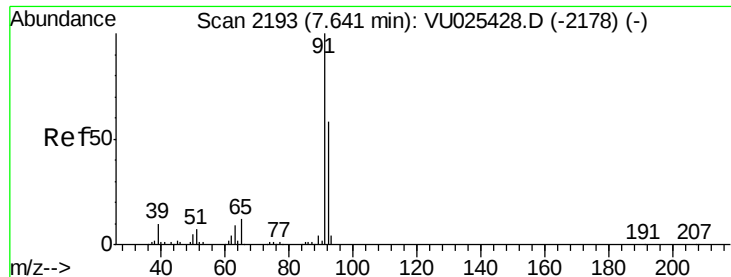
Tgt Ion: 75 Resp: 170408
 Ion Ratio Lower Upper
 75 100
 77 32.2 22.7 42.3



#40
 4-Methyl-2-pentanone
 Concen: 100.034 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. -0.00 min
 Lab File: VU025451.D
 Acq: 17 Jul 2018 02:15

Tgt Ion: 43 Resp: 396632
 Ion Ratio Lower Upper
 43 100
 58 38.0 31.0 46.4
 100 15.0 12.5 18.7





#42

Toluene

Concen: 49.321 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

Instrument :

MSVOA_U

ClientSampleId :

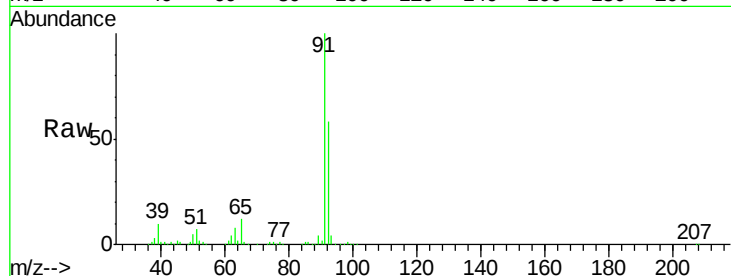
VSTD05058

Tgt Ion: 91 Resp: 491722

Ion Ratio Lower Upper

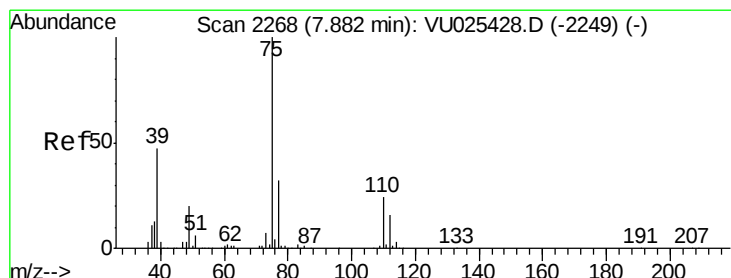
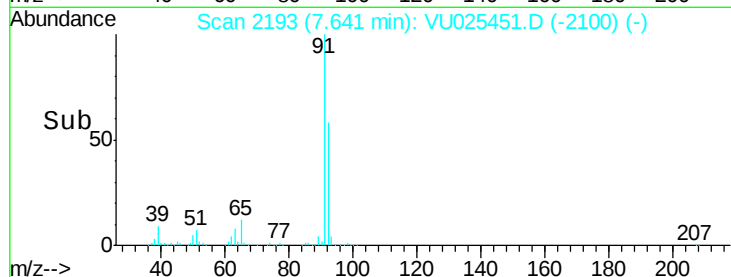
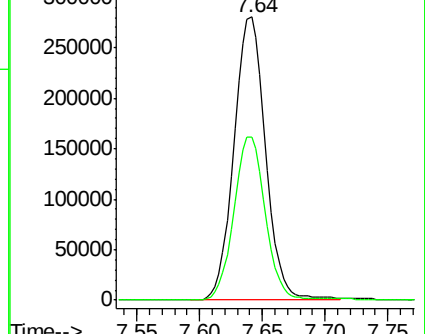
91 100

92 57.7 40.7 75.5



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 43.746 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU025451.D

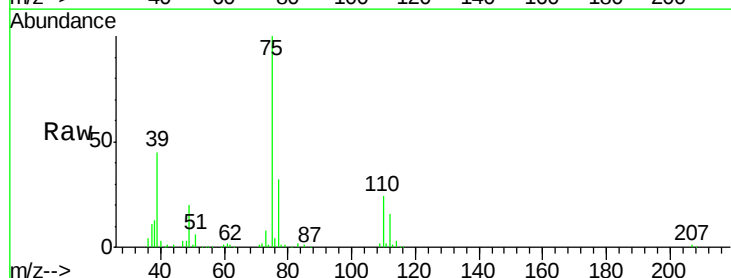
Acq: 17 Jul 2018 02:15

Tgt Ion: 75 Resp: 157302

Ion Ratio Lower Upper

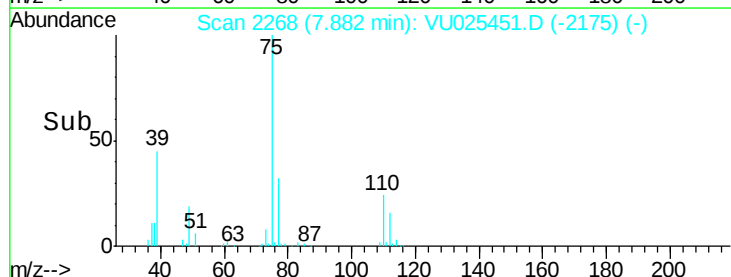
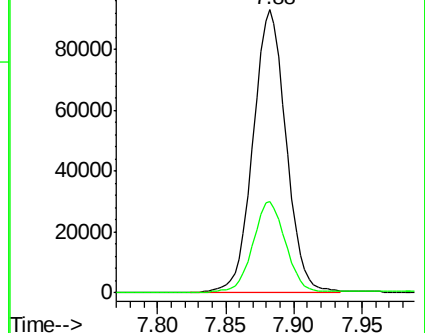
75 100

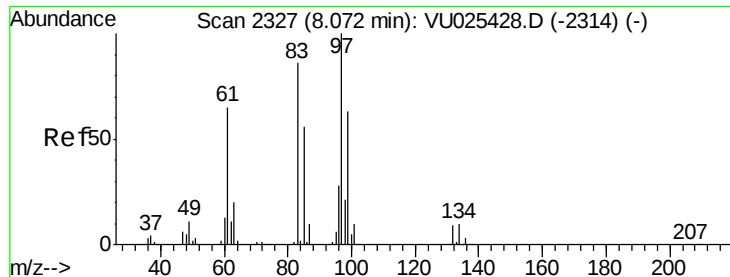
77 32.4 22.4 41.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

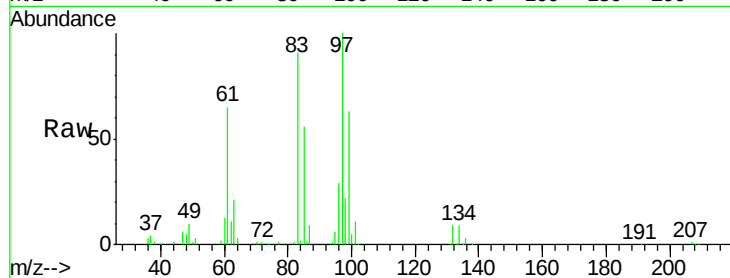




#45
 1,1,2-Trichloroethane
 Concen: 48.613 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU025451.D
 Acq: 17 Jul 2018 02:15

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

Tgt Ion:	97	Resp:	118757
Ion	Ratio	Lower	Upper
97	100		
99	63.4	44.2	82.2
83	91.1	61.0	113.2
85	56.1	40.1	74.5



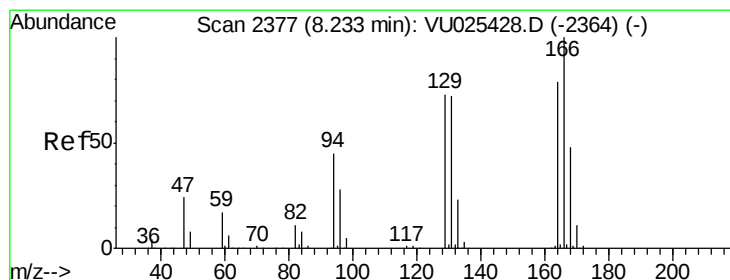
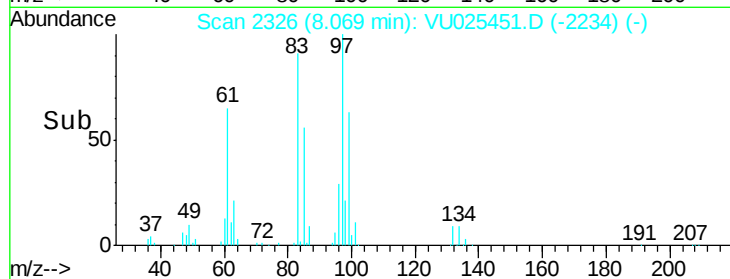
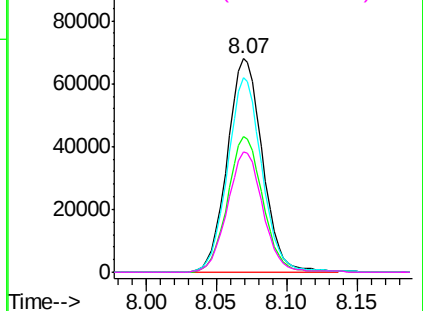
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

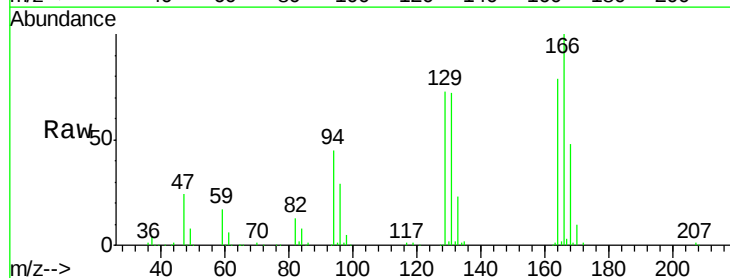
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 48.878 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. -0.00 min
 Lab File: VU025451.D
 Acq: 17 Jul 2018 02:15

Tgt Ion:	164	Resp:	100361
Ion	Ratio	Lower	Upper
164	100		
129	92.3	64.7	120.1
131	91.4	63.1	117.3
166	126.4	89.7	166.5



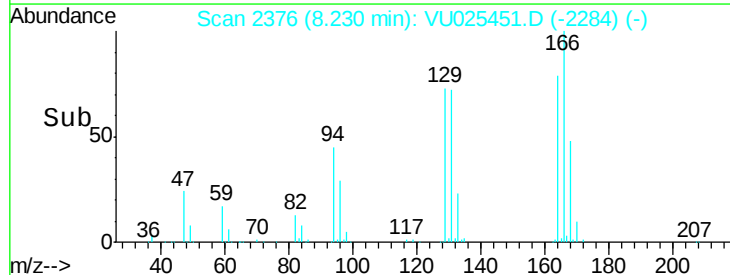
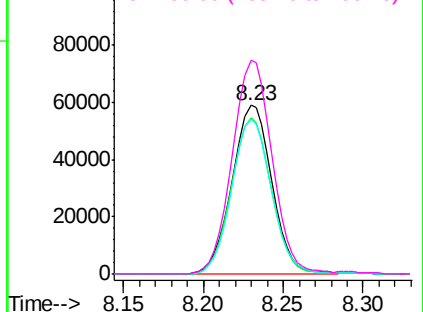
Abundance

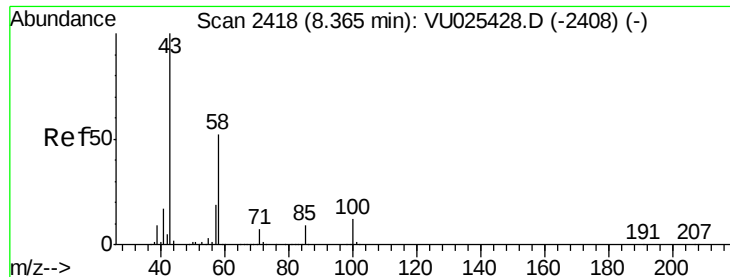
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

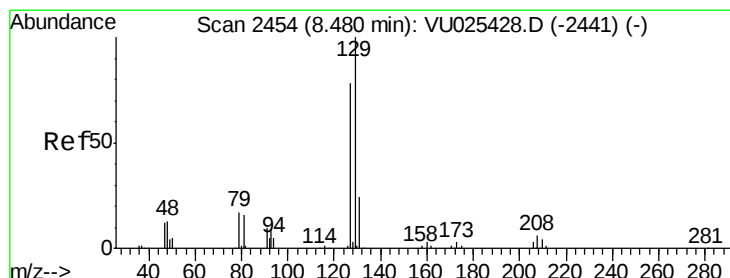
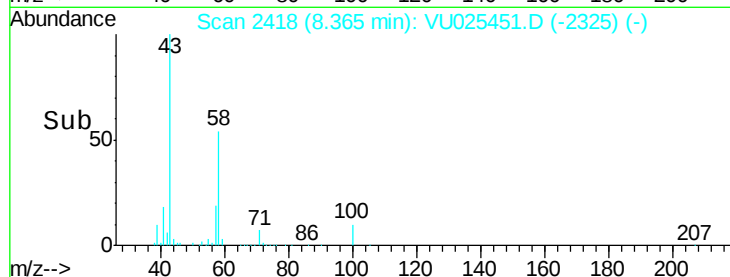
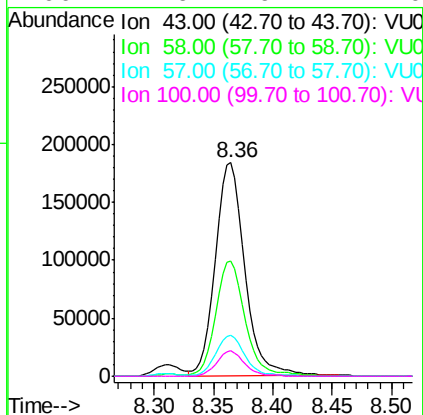
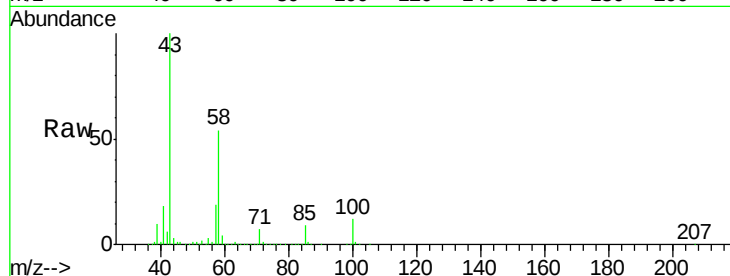




#48
2-Hexanone
Concen: 92.469 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU025451.D
Acq: 17 Jul 2018 02:15

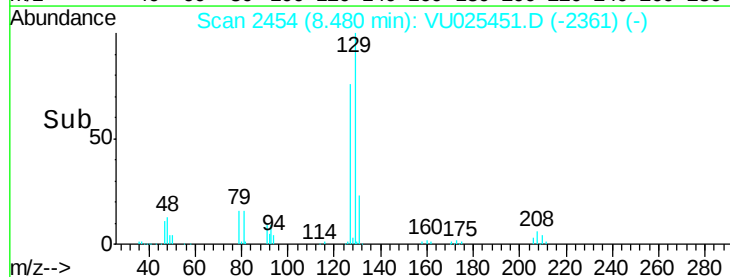
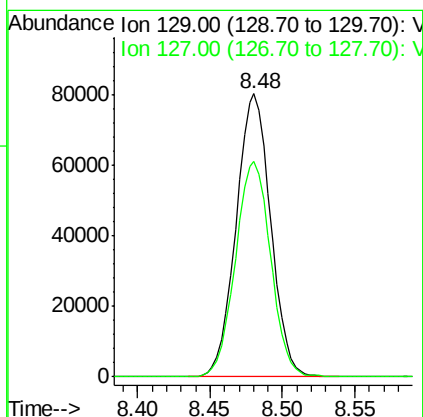
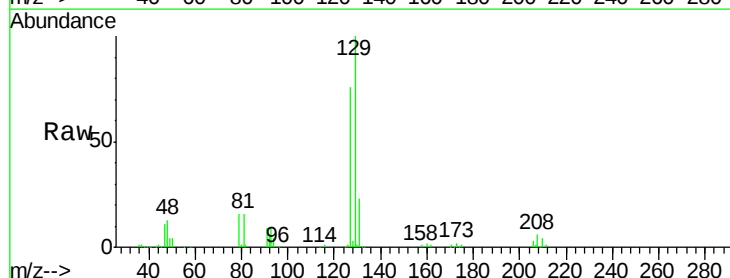
Instrument :
MSVOA_U
ClientSampleId :
VSTD05058

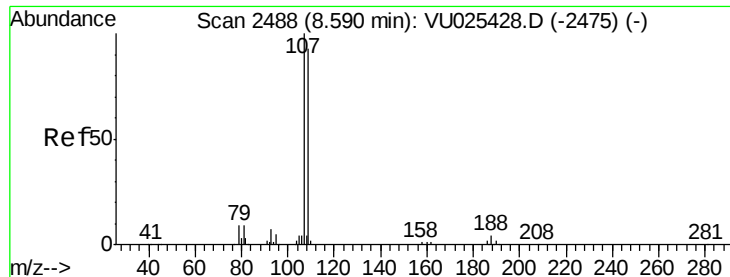
Tgt Ion: 43 Resp: 316241
Ion Ratio Lower Upper
43 100
58 53.5 43.0 64.4
57 19.0 15.8 23.6
100 11.6 9.4 14.0



#49
Dibromochloromethane
Concen: 50.637 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU025451.D
Acq: 17 Jul 2018 02:15

Tgt Ion: 129 Resp: 133230
Ion Ratio Lower Upper
129 100
127 75.9 54.4 101.0

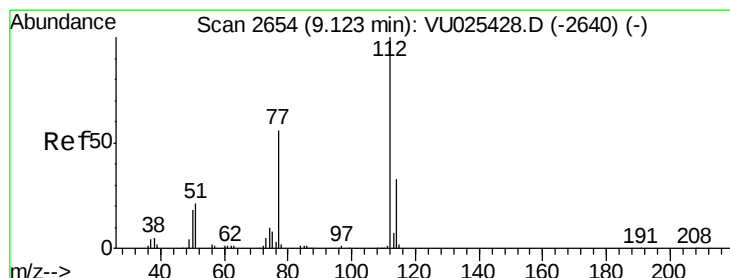
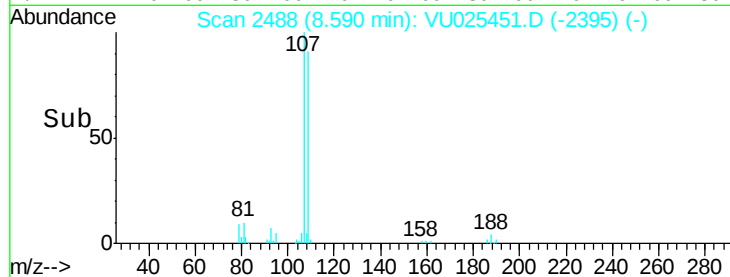
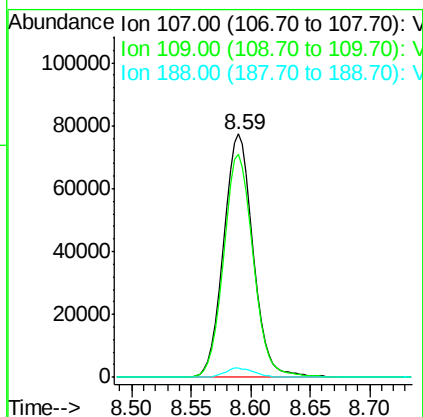
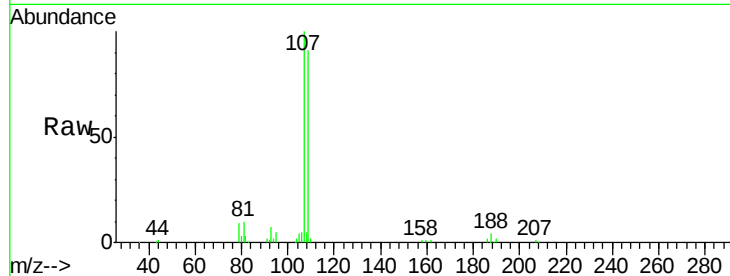




#50
 1,2-Dibromoethane
 Concen: 50.057 ug/L
 RT: 8.59 min Scan# 2488
 Delta R.T. 0.00 min
 Lab File: VU025451.D
 Acq: 17 Jul 2018 02:15

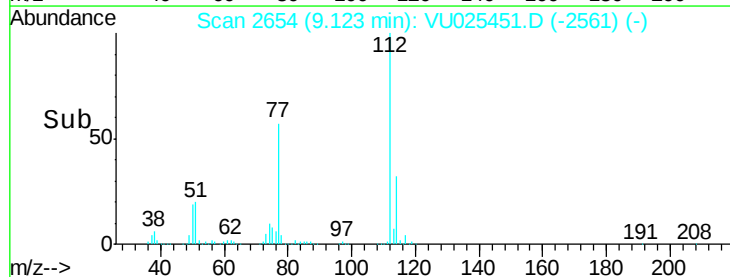
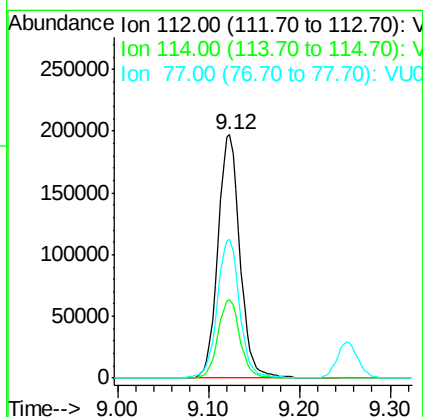
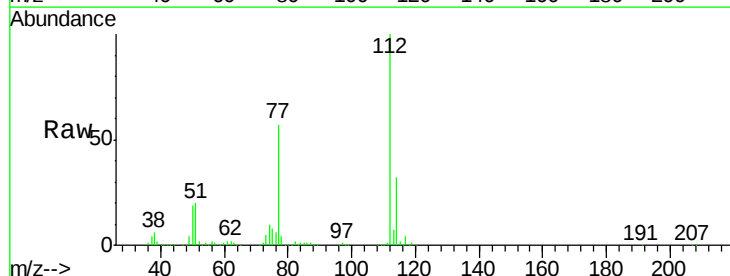
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

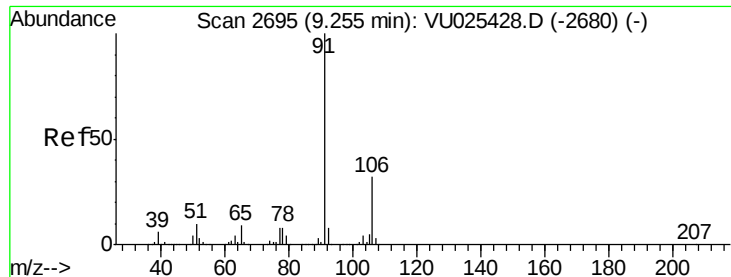
Tgt Ion:107 Resp: 132748
 Ion Ratio Lower Upper
 107 100
 109 91.4 66.8 124.2
 188 3.8 3.6 5.4



#51
 Chlorobenzene
 Concen: 48.416 ug/L
 RT: 9.12 min Scan# 2654
 Delta R.T. 0.00 min
 Lab File: VU025451.D
 Acq: 17 Jul 2018 02:15

Tgt Ion:112 Resp: 330448
 Ion Ratio Lower Upper
 112 100
 114 32.2 22.8 42.4
 77 56.7 45.5 68.3





#52

Ethylbenzene

Concen: 48.277 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

Instrument :

MSVOA_U

ClientSampleId :

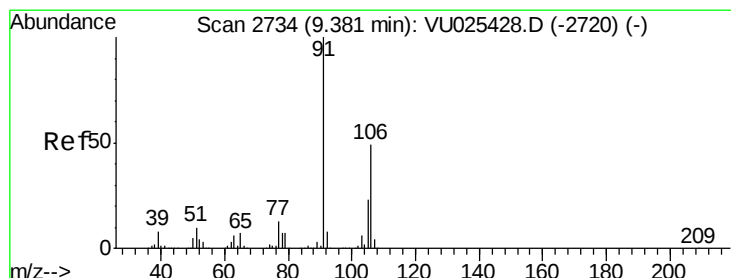
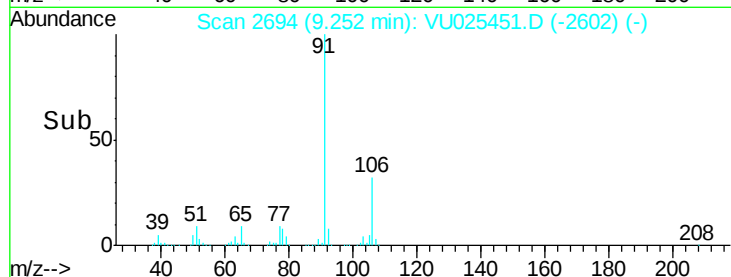
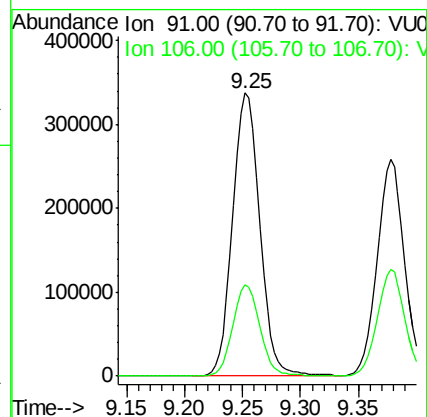
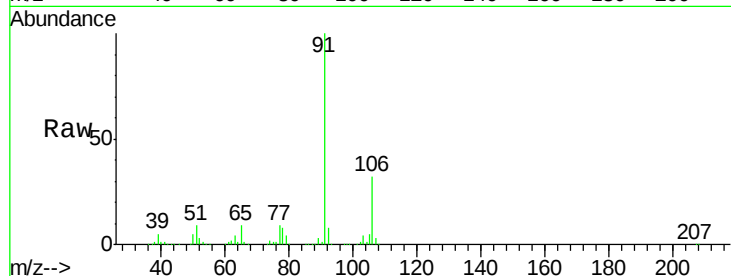
VSTD05058

Tgt Ion: 91 Resp: 547718

Ion Ratio Lower Upper

91 100

106 32.2 22.1 41.1



#53

m,p-Xylene

Concen: 48.671 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU025451.D

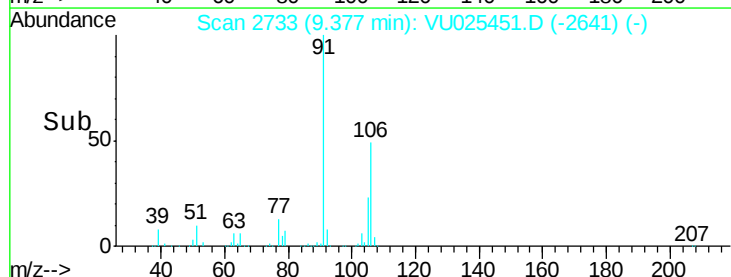
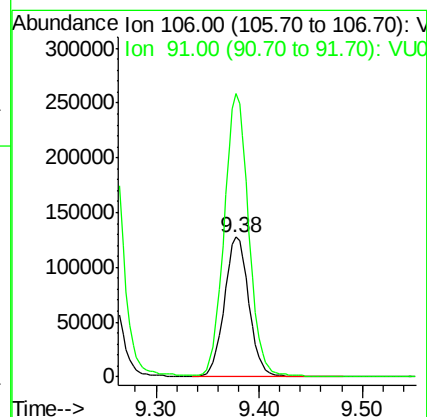
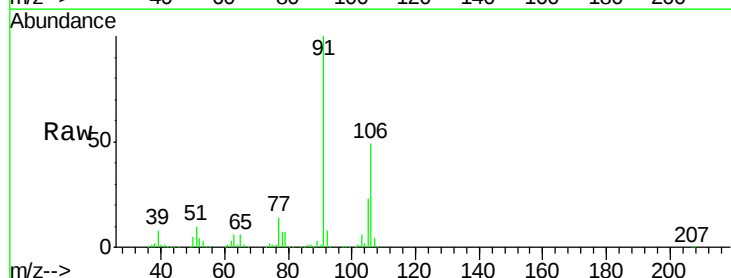
Acq: 17 Jul 2018 02:15

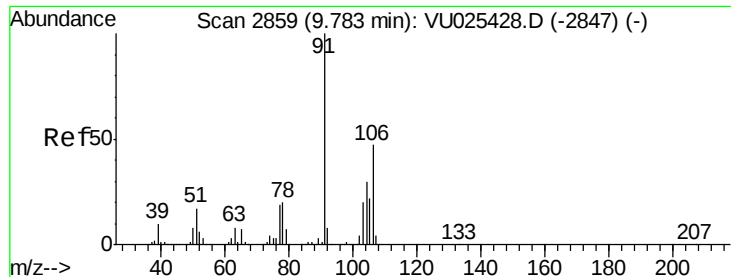
Tgt Ion: 106 Resp: 211800

Ion Ratio Lower Upper

106 100

91 202.5 141.8 263.4





#54

o-xylene

Concen: 48.297 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

Instrument :

MSVOA_U

ClientSampleId :

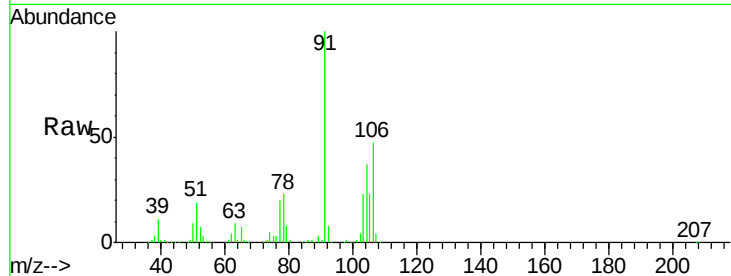
VSTD05058

Tgt Ion:106 Resp: 212964

Ion Ratio Lower Upper

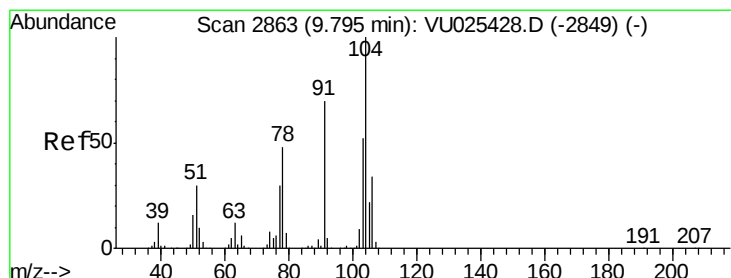
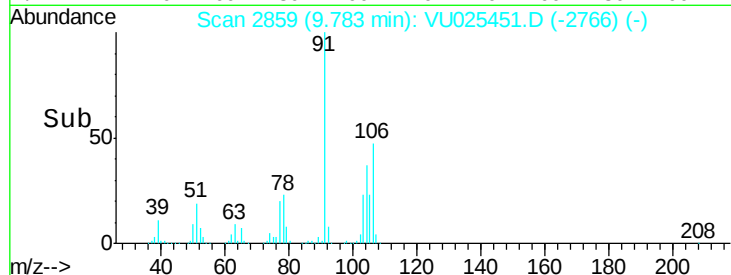
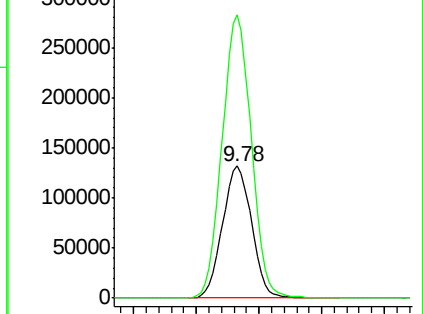
106 100

91 214.8 151.3 281.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 48.502 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VU025451.D

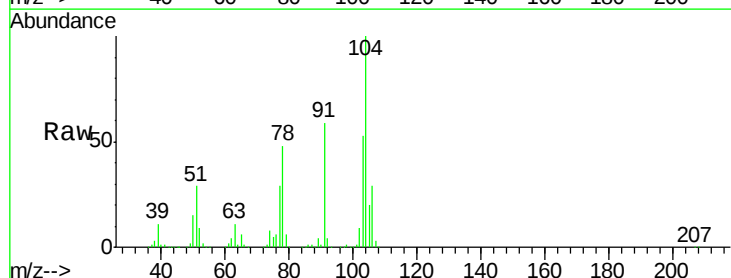
Acq: 17 Jul 2018 02:15

Tgt Ion:104 Resp: 349965

Ion Ratio Lower Upper

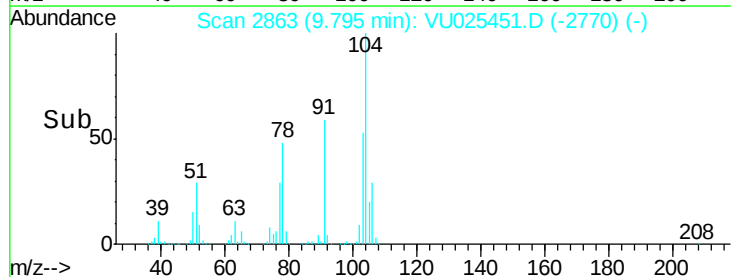
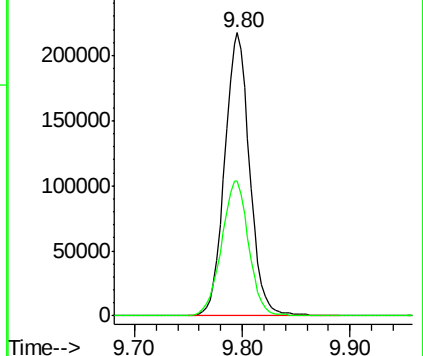
104 100

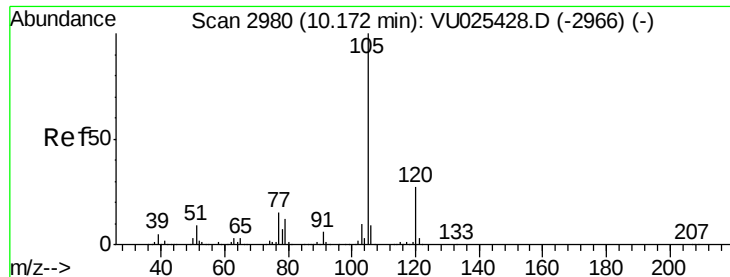
78 47.5 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 48.800 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05058

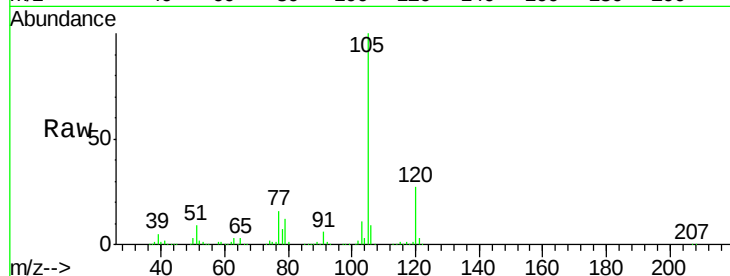
Tgt Ion: 105 Resp: 556324

Ion Ratio Lower Upper

105 100

120 27.0 21.7 32.5

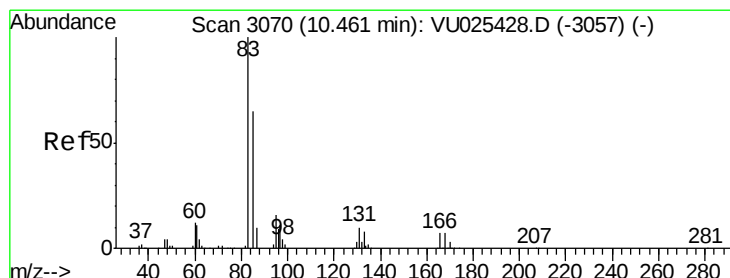
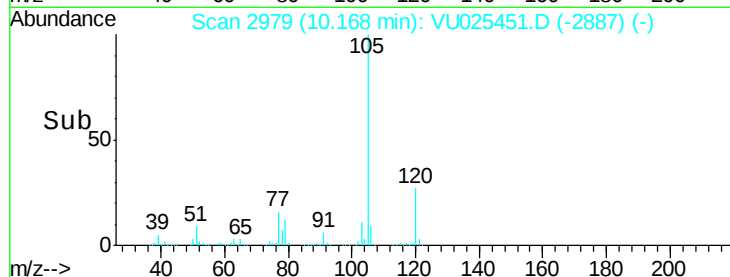
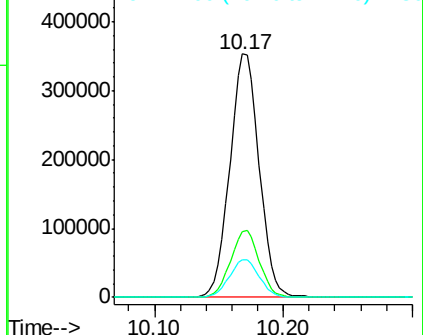
77 15.7 12.6 19.0



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: 48.555 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

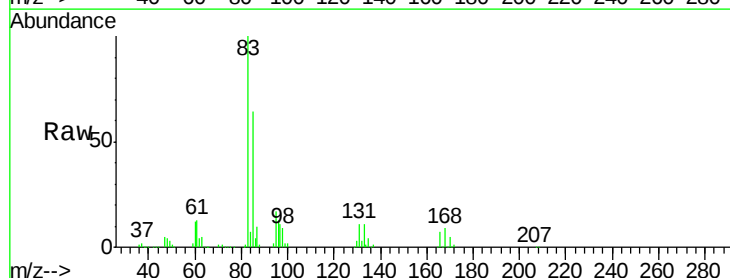
Tgt Ion: 83 Resp: 210169

Ion Ratio Lower Upper

83 100

85 64.5 45.9 85.3

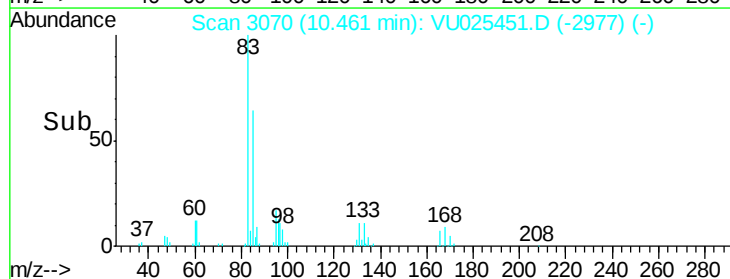
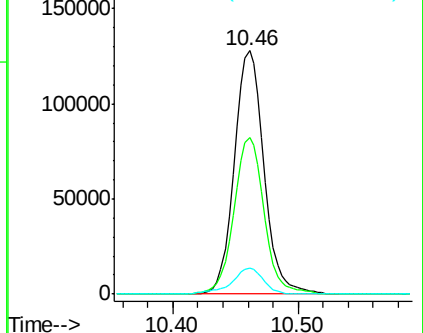
131 10.9 8.6 13.0

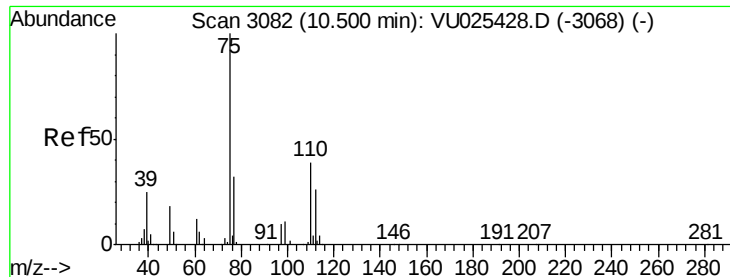


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 48.484 ug/L

RT: 10.50 min Scan# 3081

Delta R.T. -0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

Instrument :

MSVOA_U

ClientSampleId :

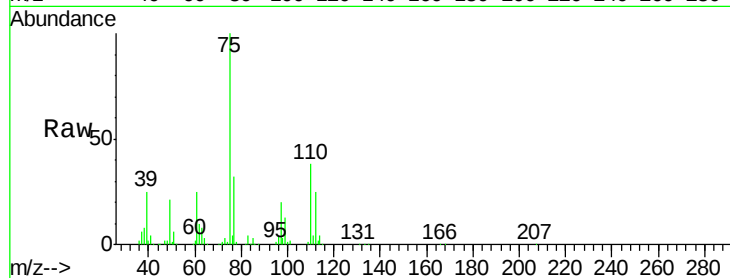
VSTD05058

Tgt Ion: 75 Resp: 173226

Ion Ratio Lower Upper

75 100

77 32.2 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

10.50

120000

100000

80000

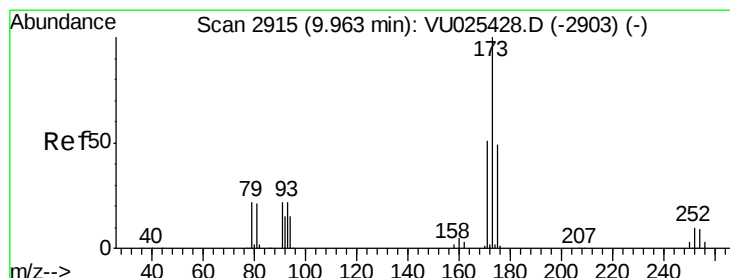
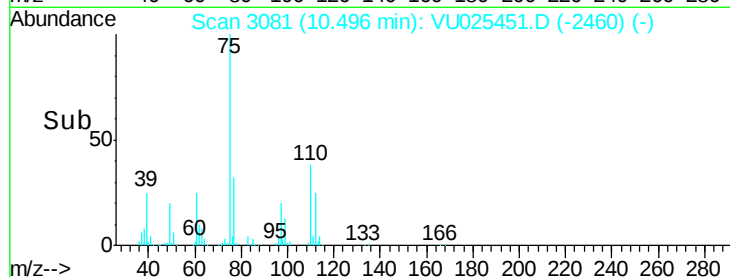
60000

40000

20000

0

Time--> 10.40 10.45 10.50 10.55



#61

Bromoform

Concen: 52.893 ug/L

RT: 9.96 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

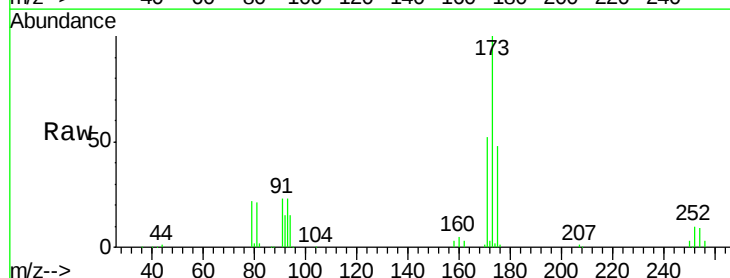
Tgt Ion: 173 Resp: 97438

Ion Ratio Lower Upper

173 100

175 48.0 38.2 57.2

254 9.0 7.4 11.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

9.96

80000

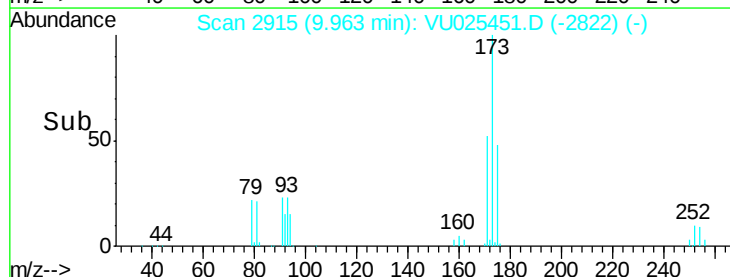
60000

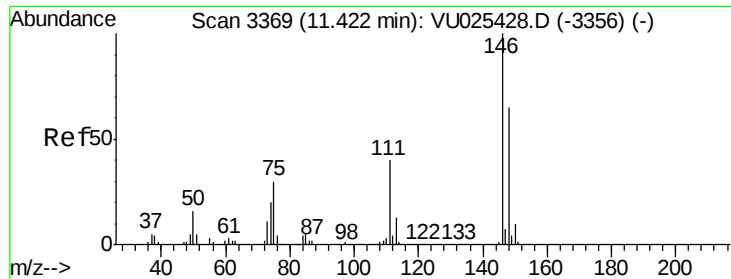
40000

20000

0

Time--> 9.90 9.95 10.00 10.05





#62

1,3-Dichlorobenzene

Concen: 48.516 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. -0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05058

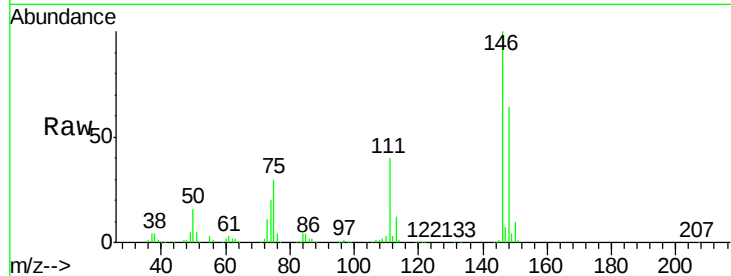
Tgt Ion:146 Resp: 256573

Ion Ratio Lower Upper

146 100

111 39.8 27.4 51.0

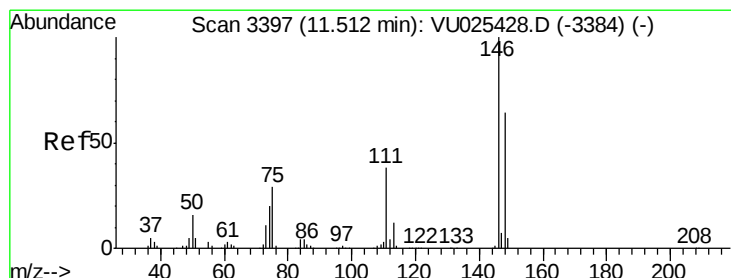
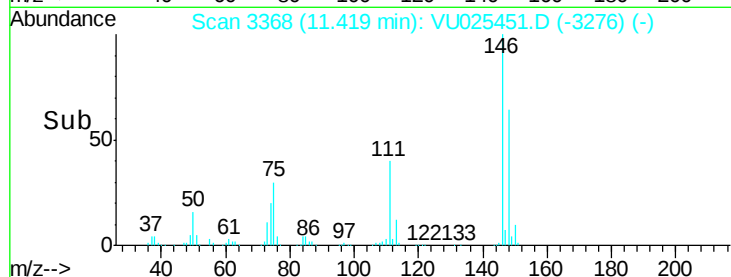
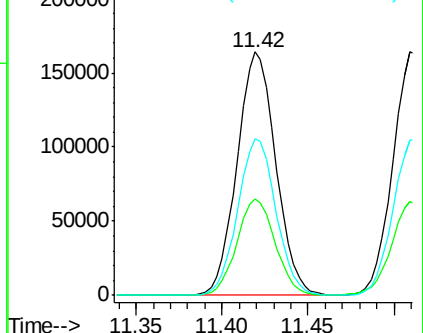
148 64.4 45.1 83.9



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: 48.134 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

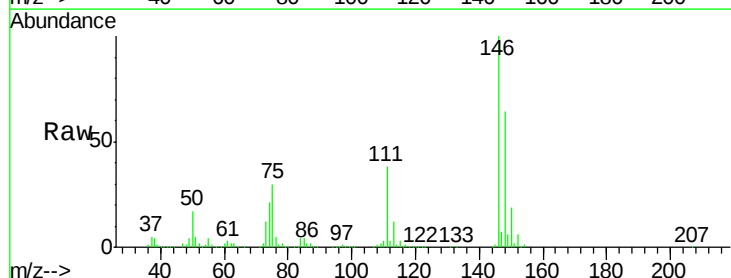
Tgt Ion:146 Resp: 255371

Ion Ratio Lower Upper

146 100

111 38.5 26.6 49.4

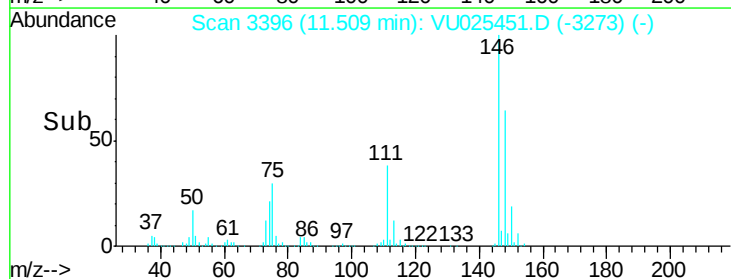
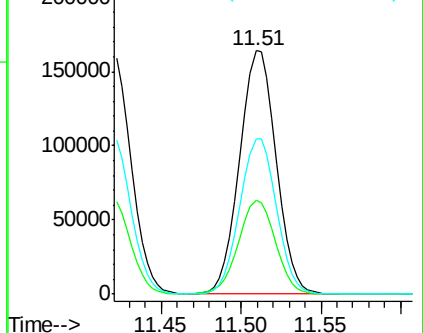
148 63.6 45.6 84.6

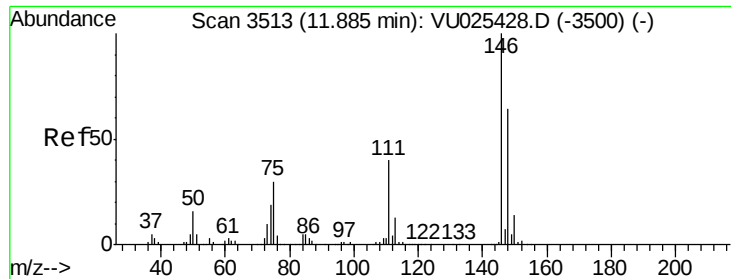


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

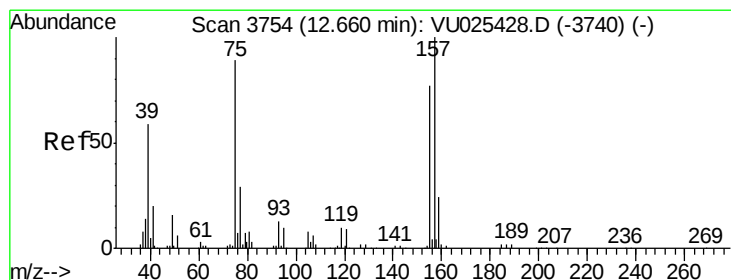
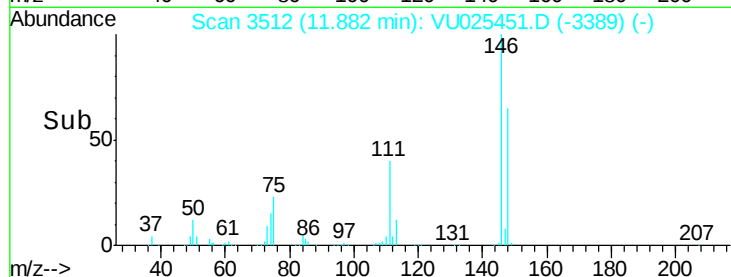
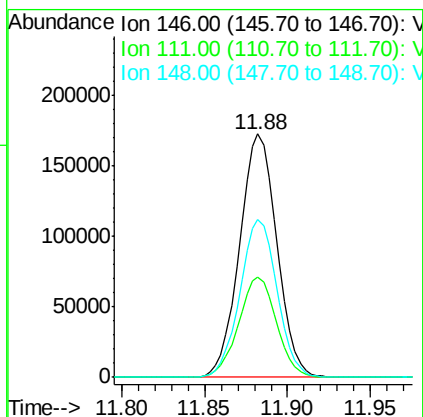
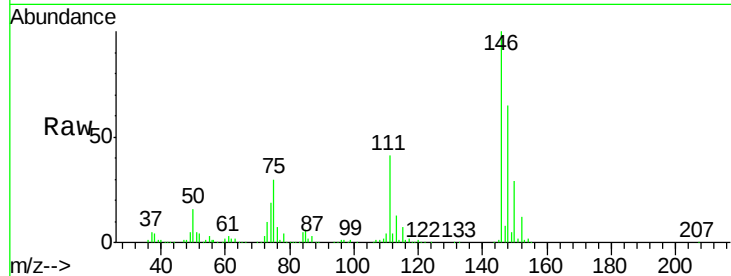




#65
 1,2-Dichlorobenzene
 Concen: 48.477 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU025451.D
 Acq: 17 Jul 2018 02:15

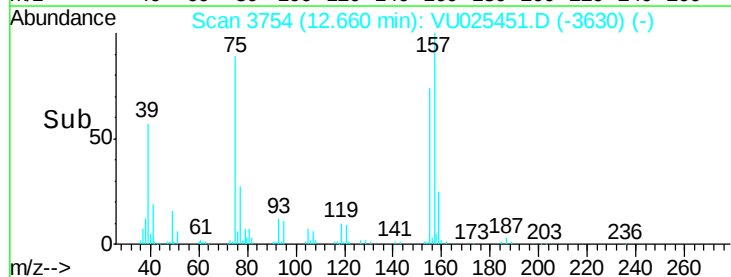
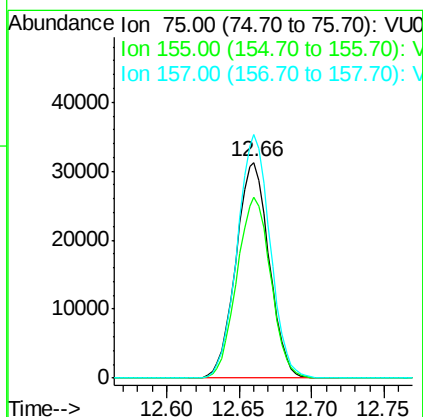
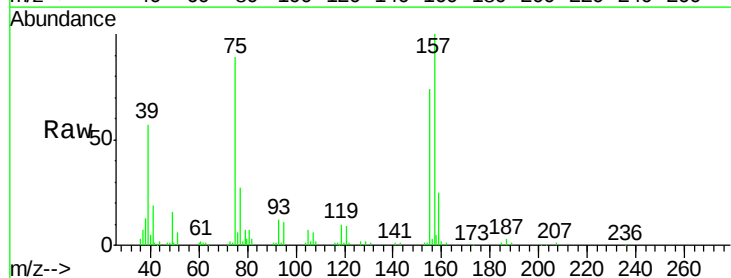
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

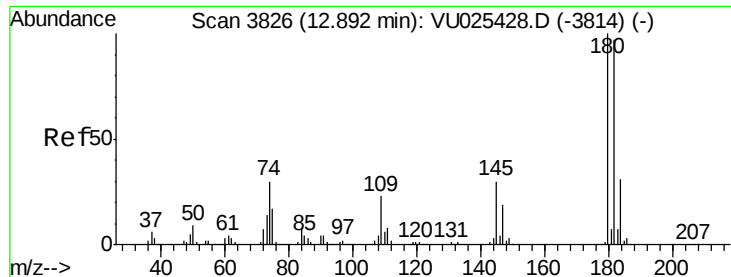
Tgt Ion:146 Resp: 270323
 Ion Ratio Lower Upper
 146 100
 111 41.3 33.0 49.4
 148 64.8 51.8 77.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 51.368 ug/L
 RT: 12.66 min Scan# 3754
 Delta R.T. 0.00 min
 Lab File: VU025451.D
 Acq: 17 Jul 2018 02:15

Tgt Ion: 75 Resp: 49798
 Ion Ratio Lower Upper
 75 100
 155 83.6 68.7 103.1
 157 112.8 89.0 133.4

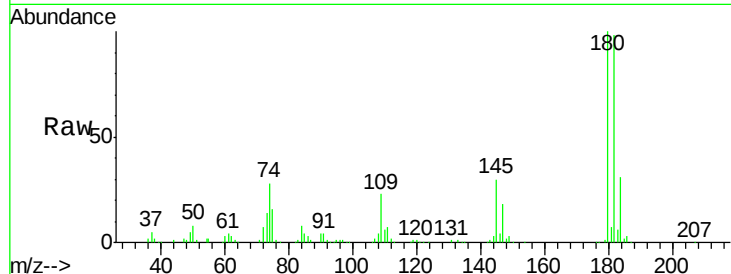




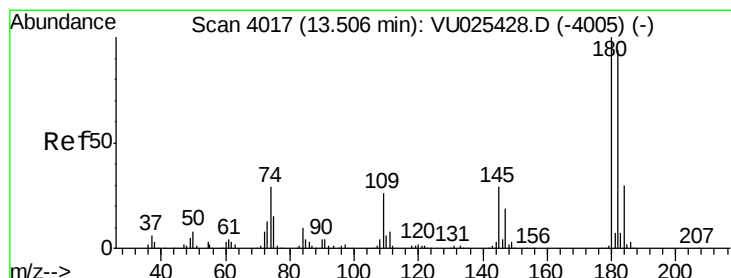
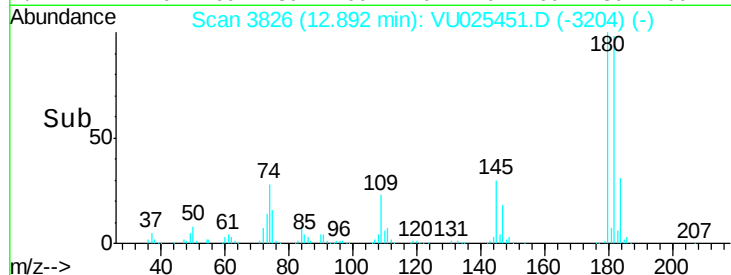
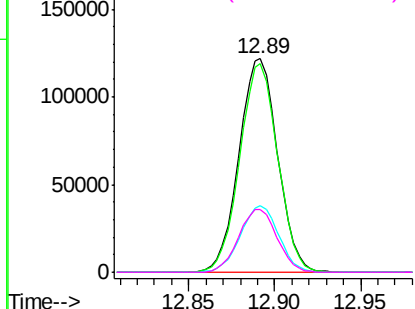
#67
 1,3,5-Trichlorobenzene
 Concen: 48.130 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU025451.D
 Acq: 17 Jul 2018 02:15

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

Tgt Ion:	180	Resp:	190341
Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.5	114.7
184	30.9	24.6	36.8
145	29.4	23.3	34.9

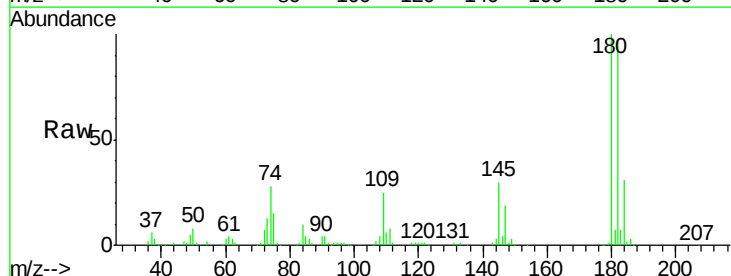


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

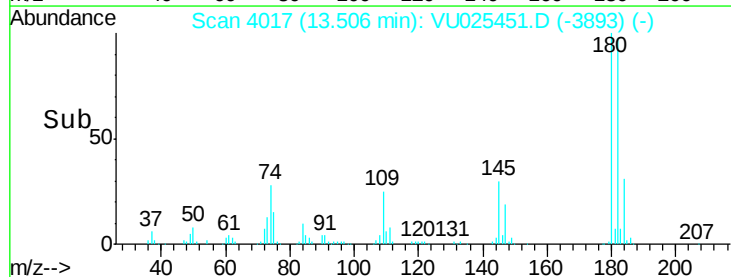
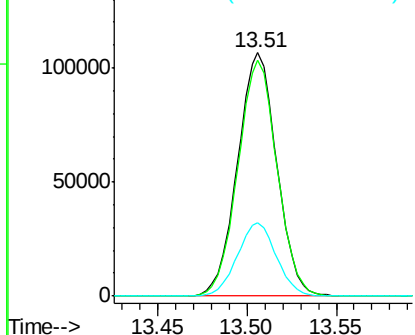


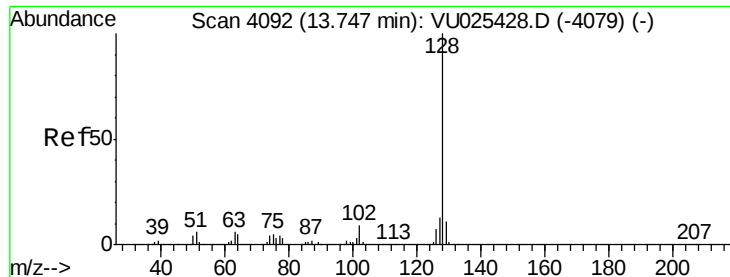
#68
 1,2,4-trichlorobenzene
 Concen: 47.816 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU025451.D
 Acq: 17 Jul 2018 02:15

Tgt Ion:	180	Resp:	163547
Ion	Ratio	Lower	Upper
180	100		
182	96.9	77.0	115.6
145	30.1	24.2	36.2



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: 50.532 ug/L

RT: 13.74 min Scan# 4091

Delta R.T. -0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05058

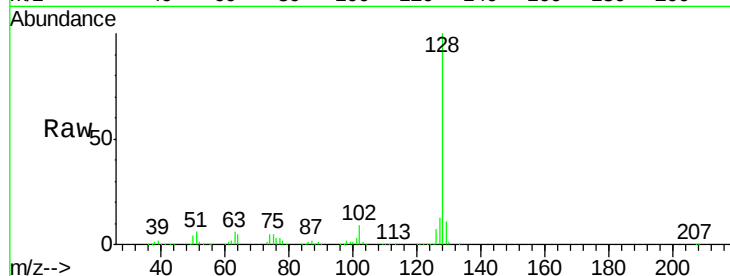
Tgt Ion:128 Resp: 602185

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

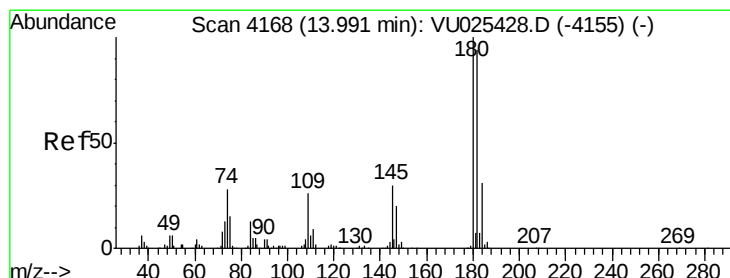
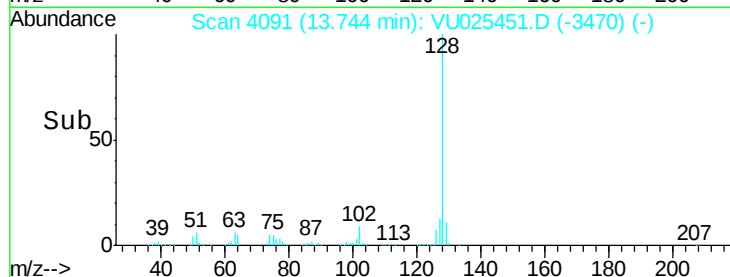
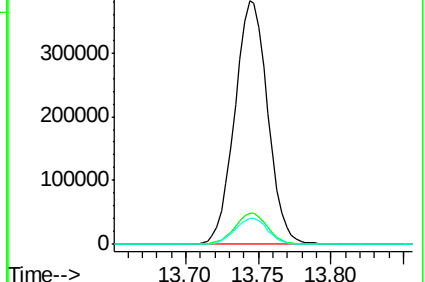
129 10.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 49.926 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU025451.D

Acq: 17 Jul 2018 02:15

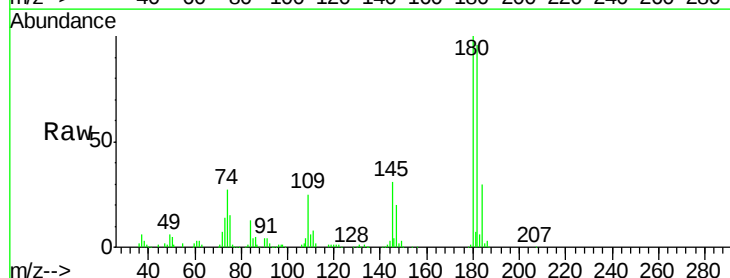
Tgt Ion:180 Resp: 183523

Ion Ratio Lower Upper

180 100

182 94.8 76.2 114.4

145 31.0 25.4 38.2



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

