

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\
 Data File : VU028116.D
 Acq On : 14 Nov 2018 12:35
 Operator : MD/SY
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00506

Quant Time: Nov 15 04:23:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111418WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Nov 15 04:19:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	177310	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	165343	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	78714	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	69836	4.75	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.00%
7) Chloroethane-d5	1.68	69	55020	4.71	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.20%
11) 1,1-Dichloroethene-d2	2.28	63	132184	4.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	96.20%
20) 2-Butanone-d5	4.21	46	213542	50.04	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.08%
24) Chloroform-d	4.65	84	114873	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.20%
26) 1,2-Dichloroethane-d4	5.32	65	62286	4.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.40%
32) Benzene-d6	5.34	84	235709	4.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.20%
36) 1,2-Dichloropropane-d6	6.33	67	83688	4.93	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.60%
41) Toluene-d8	7.57	98	213280	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.60%
43) trans-1,3-Dichloropropene-	7.85	79	30025	4.96	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.20%
46) 2-Hexanone-d5	8.31	63	172218	49.78	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.56%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	59637	4.97	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.40%
64) 1,2-Dichlorobenzene-d4	11.86	152	72448	4.93	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.21	85	75664	4.838	ug/L 99
3) Chloromethane	1.33	50	96688	4.837	ug/L 97
5) Vinyl chloride	1.40	62	93503	4.923	ug/L 99
6) Bromomethane	1.63	94	45330	4.983	ug/L 98
8) Chloroethane	1.70	64	53242	4.657	ug/L 100
9) Trichlorofluoromethane	1.89	101	102048	4.926	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	57538	4.947	ug/L 98
12) 1,1-Dichloroethene	2.29	96	56382	4.782	ug/L 94
13) Acetone	2.35	43	141738	49.316	ug/L 100
14) Carbon disulfide	2.48	76	190242	4.812	ug/L 99
15) Methyl Acetate	2.63	43	36390	4.735	ug/L 99
16) Methylene chloride	2.70	84	67286	4.831	ug/L 99
17) Methyl tert-butyl Ether	3.01	73	157976	4.793	ug/L 99
18) trans-1,2-Dichloroethene	2.98	96	61342	4.894	ug/L 92
19) 1,1-Dichloroethane	3.45	63	128306	4.867	ug/L 98
21) 2-Butanone	4.30	43	228061	50.281	ug/L 100
22) cis-1,2-Dichloroethene	4.23	96	67149	4.859	ug/L 99

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Instrument :
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 ClientSampleId :
 VSTD00506

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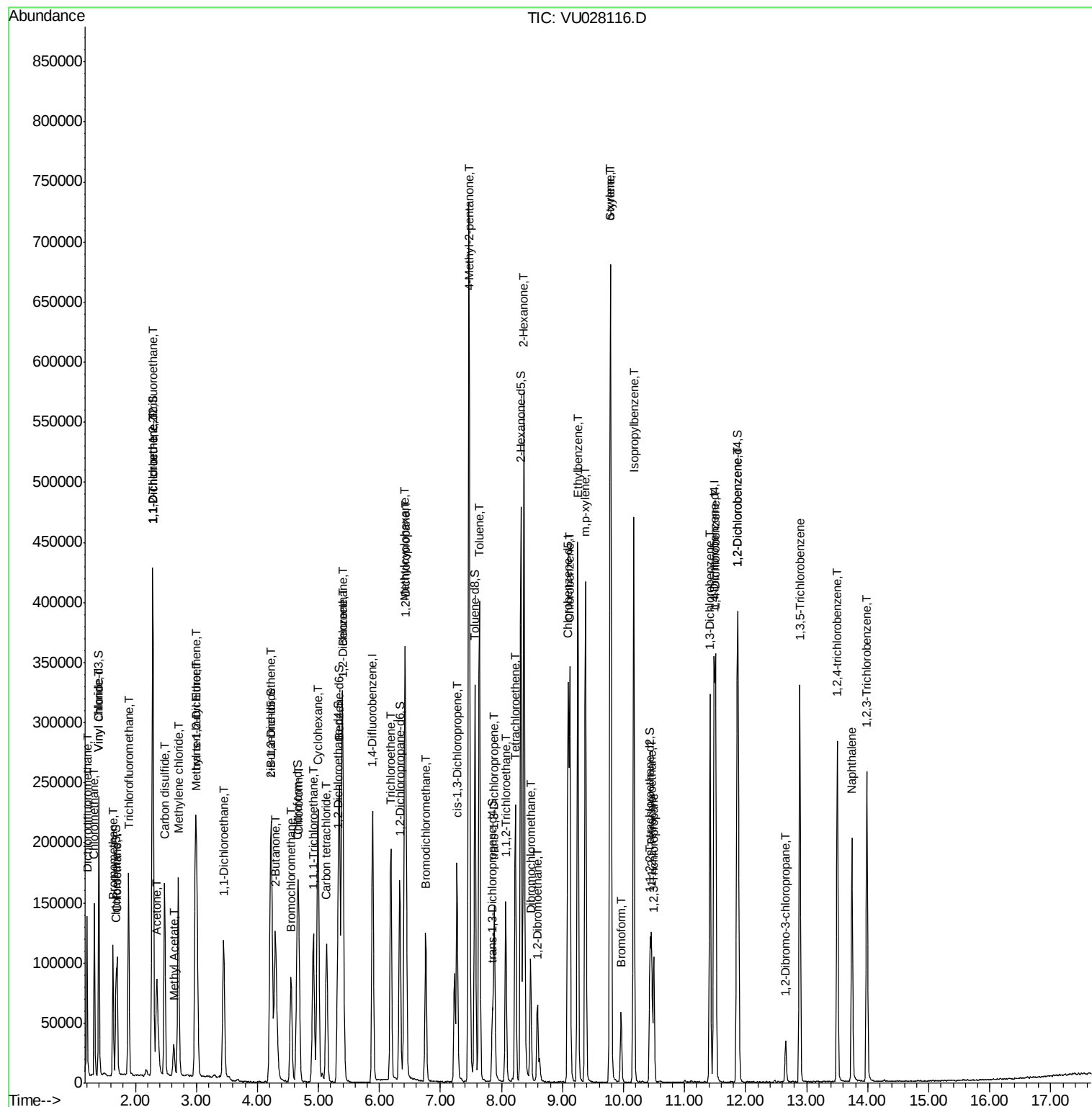
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	26278	4.812	ug/L	98
25) Chloroform	4.68	83	117696	4.978	ug/L	99
27) 1,2-Dichloroethane	5.41	62	78661	5.061	ug/L	99
29) 1,1,1-Trichloroethane	4.92	97	94217	5.035	ug/L	99
30) Cyclohexane	4.99	56	131283	5.003	ug/L	99
31) Carbon tetrachloride	5.13	117	77798	5.009	ug/L	99
33) Benzene	5.39	78	275328	4.943	ug/L	100
34) Trichloroethene	6.19	95	67664	4.915	ug/L	98
35) Methylcyclohexane	6.41	83	119058	5.031	ug/L	99
37) 1,2-Dichloropropane	6.43	63	78471	5.094	ug/L	99
38) Bromodichloromethane	6.76	83	80567	4.916	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	105136	5.048	ug/L	96
40) 4-Methyl-2-pentanone	7.47	43	532146	50.167	ug/L	100
42) Toluene	7.64	91	284736	4.958	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	80739	4.947	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	46354	4.984	ug/L	98
47) Tetrachloroethene	8.22	164	49801	4.449	ug/L	95
48) 2-Hexanone	8.37	43	383938	50.868	ug/L	100
49) Dibromochloromethane	8.48	129	49744	5.025	ug/L	94
50) 1,2-Dibromoethane	8.59	107	43722	4.994	ug/L	99
51) Chlorobenzene	9.12	112	164462	4.897	ug/L	98
52) Ethylbenzene	9.25	91	311060	4.962	ug/L	100
53) m,p-xylene	9.38	106	113506	4.970	ug/L	96
54) o-xylene	9.78	106	110424	5.022	ug/L	99
55) Styrene	9.79	104	188046	5.057	ug/L	96
56) Isopropylbenzene	10.17	105	295706	4.972	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	60007	5.006	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	43433	5.020	ug/L	98
61) Bromoform	9.96	173	25545	4.799	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	124022	4.983	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	123723	4.911	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	115729	4.862	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	8376	4.850	ug/L	95
67) 1,3,5-Trichlorobenzene	12.89	180	97203	5.091	ug/L	97
68) 1,2,4-trichlorobenzene	13.50	180	84082	5.052	ug/L	99
69) Naphthalene	13.74	128	157573	5.081	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	78405	5.114	ug/L	97

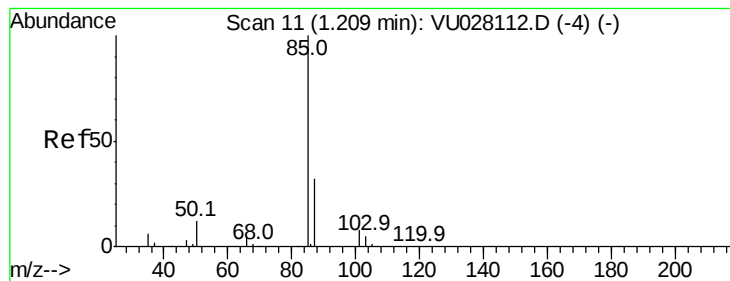
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00506

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#2

Dichlorodifluoromethane

Concen: 4.838 ug/L

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Instrument :

MSVOA_U

ClientSampleId :

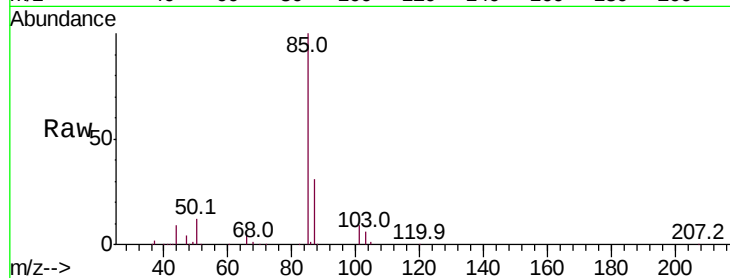
VSTD00506

Tot Ion: 85 Resp: 75664

Ion Ratio Lower Upper

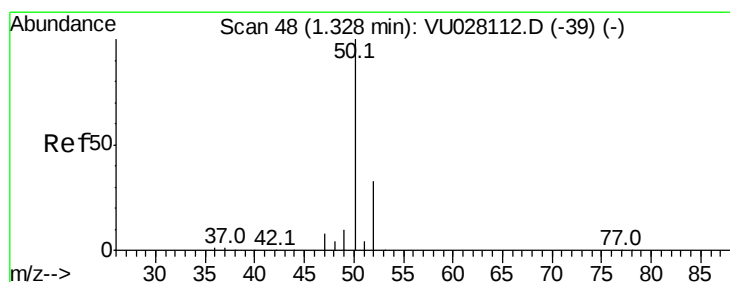
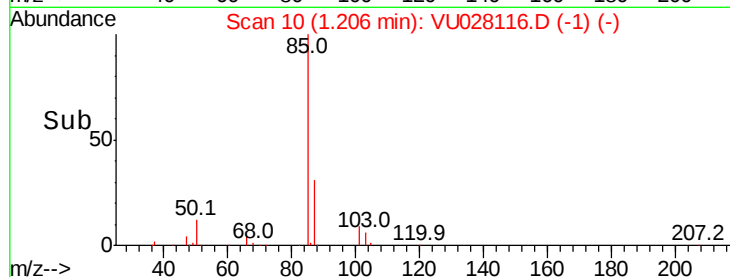
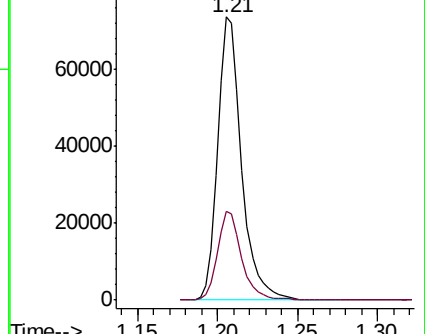
85 100

87 31.6 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 4.837 ug/L

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU028116.D

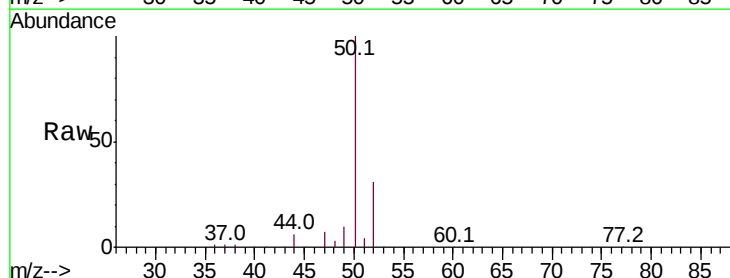
Acq: 14 Nov 2018 12:35

Tgt Ion: 50 Resp: 96688

Ion Ratio Lower Upper

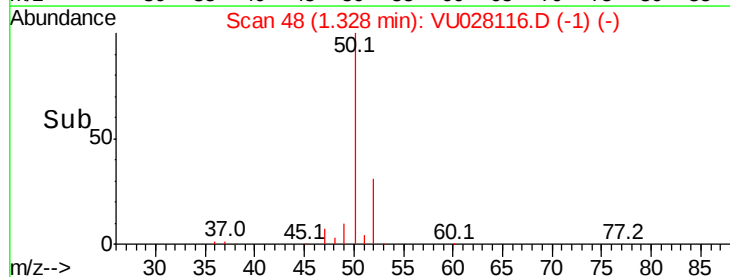
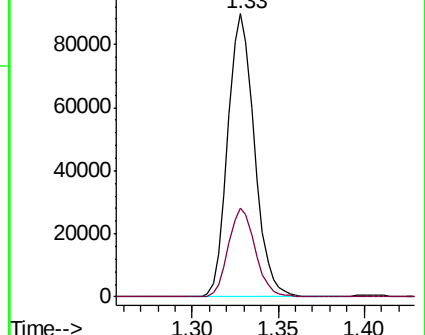
50 100

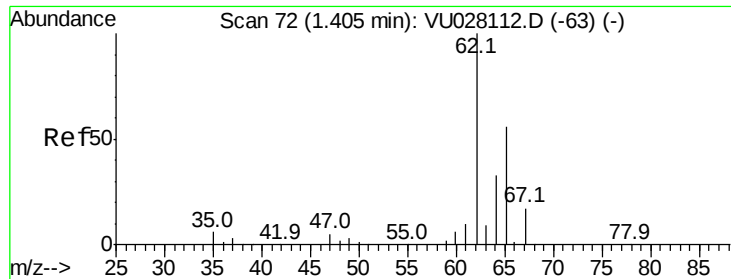
52 31.4 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 4.923 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Instrument :

MSVOA_U

ClientSampleId :

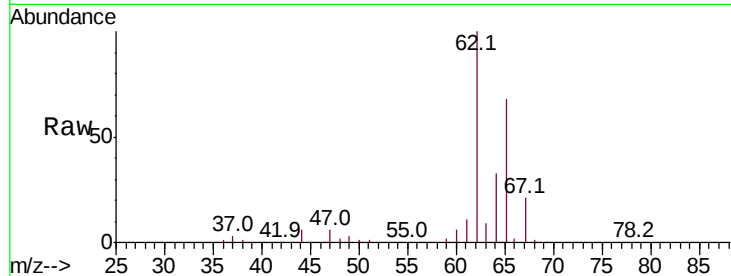
VSTD00506

Tot Ion: 62 Resp: 93503

Ion Ratio Lower Upper

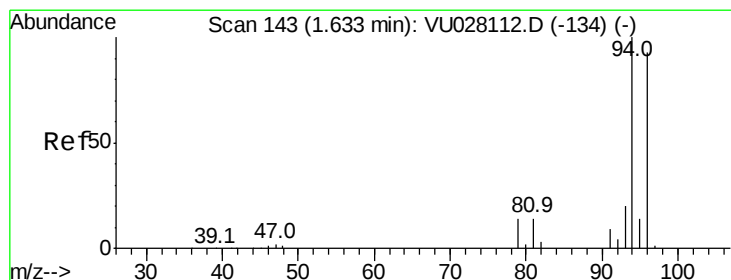
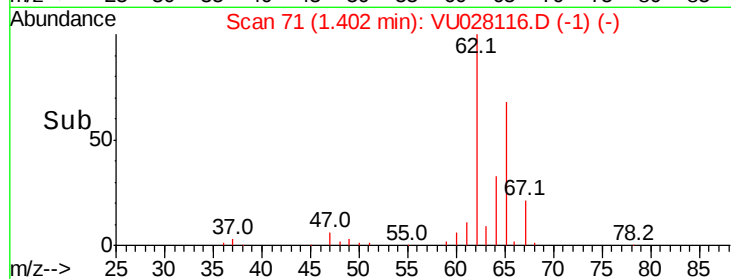
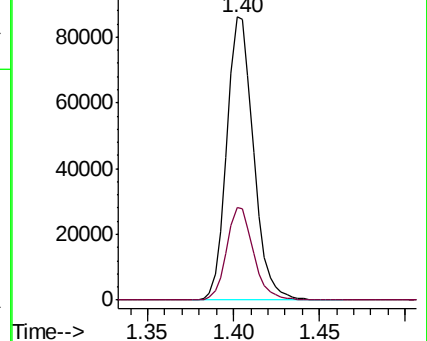
62 100

64 32.9 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 4.983 ug/L

RT: 1.63 min Scan# 143

Delta R.T. 0.00 min

Lab File: VU028116.D

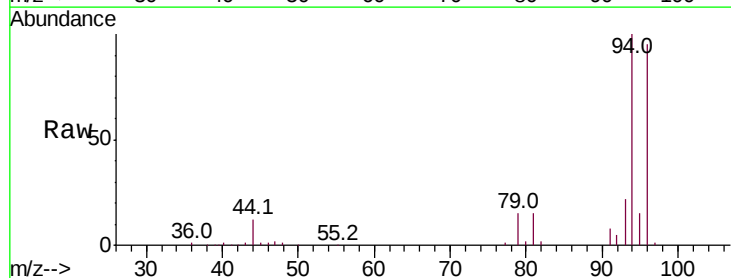
Acq: 14 Nov 2018 12:35

Tgt Ion: 94 Resp: 45330

Ion Ratio Lower Upper

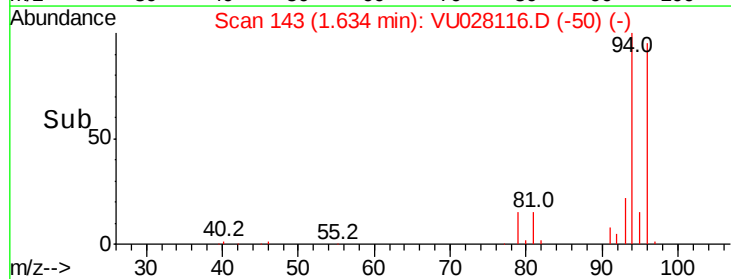
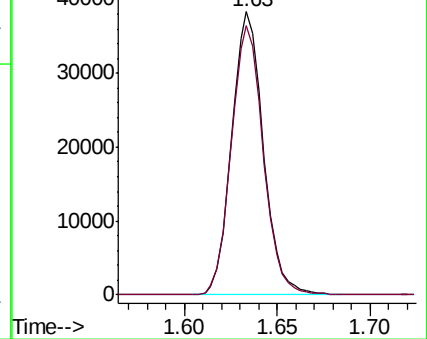
94 100

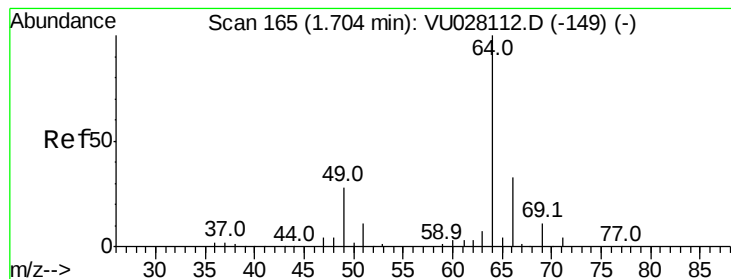
96 95.3 65.1 120.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 4.657 ug/L

RT: 1.70 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Instrument :

MSVOA_U

ClientSampleId :

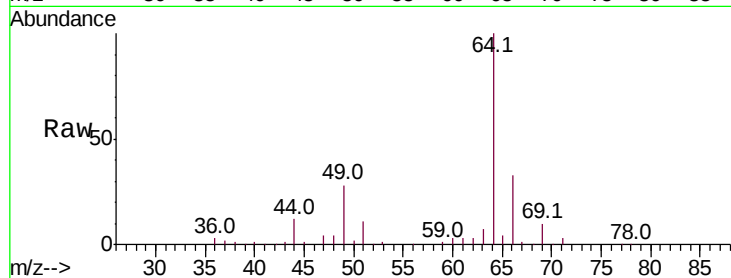
VSTD00506

Tot Ion: 64 Resp: 53242

Ion Ratio Lower Upper

64 100

66 32.8 23.1 42.9

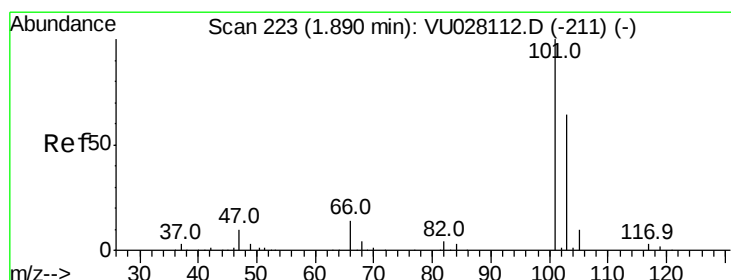
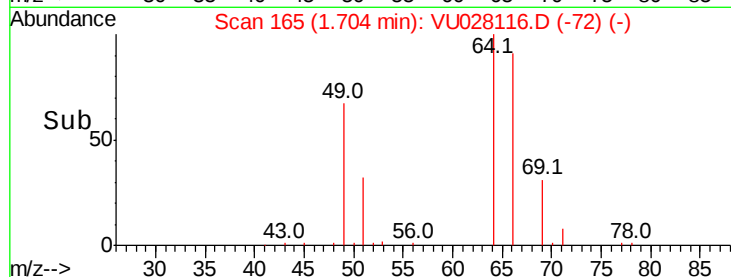


Abundance Ion 64.10 (63.80 to 64.80): VU028116.D (-149) (-)

Ion 66.05 (65.75 to 66.75): VU028116.D (-149) (-)

1.70

Time-->



#9

Trichlorofluoromethane

Concen: 4.926 ug/L

RT: 1.89 min Scan# 222

Delta R.T. -0.00 min

Lab File: VU028116.D

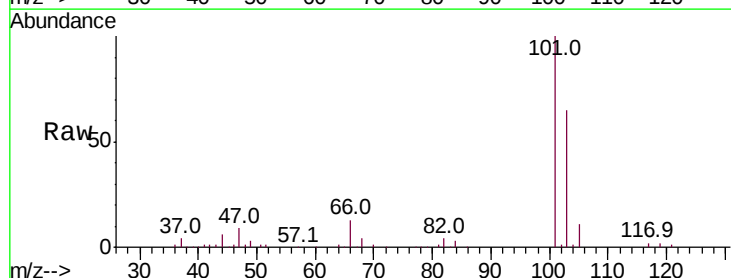
Acq: 14 Nov 2018 12:35

Tgt Ion:101 Resp: 102048

Ion Ratio Lower Upper

101 100

103 64.9 51.2 76.8

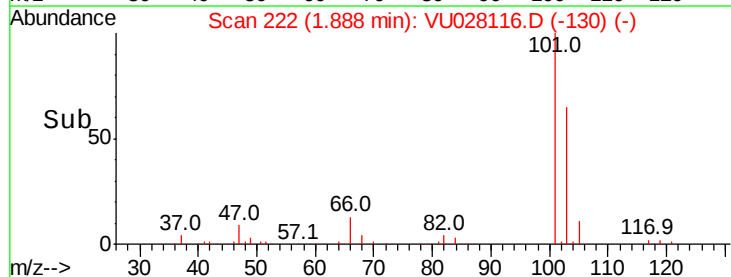


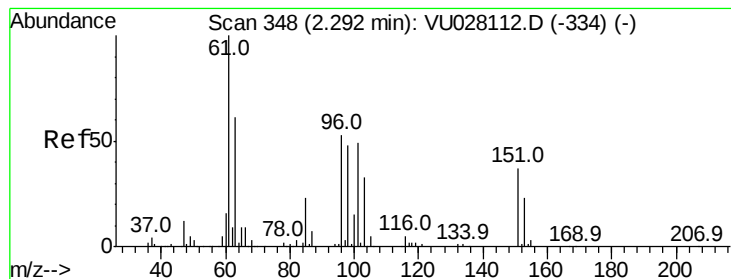
Abundance Ion 101.00 (100.70 to 101.70): VU028116.D (-130) (-)

Ion 103.00 (102.70 to 103.70): VU028116.D (-130) (-)

1.89

Time-->





#10

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

Concen: 4.947 ug/L

RT: 2.29 min Scan# 348

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD00506

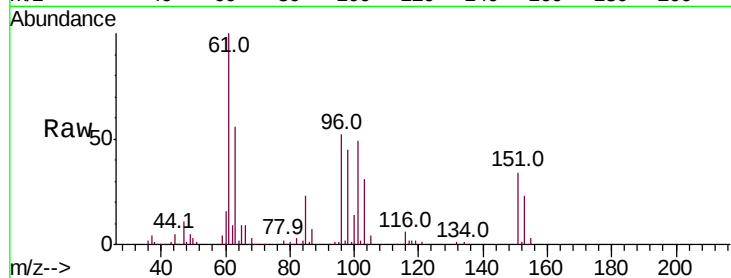
Tot Ion:101 Resp: 57538

Ion Ratio Lower Upper

101 100

85 47.5 37.6 56.4

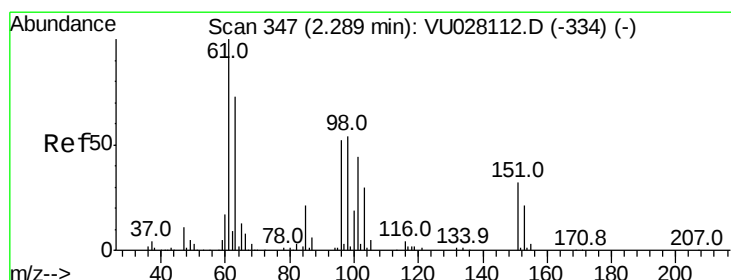
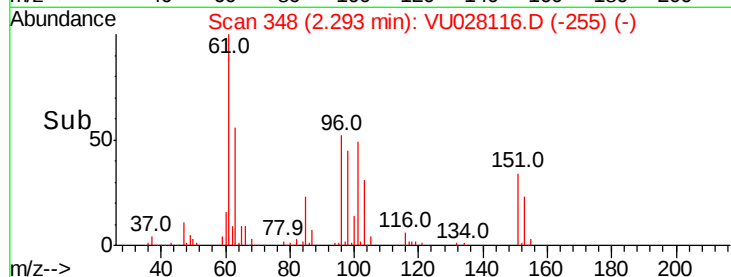
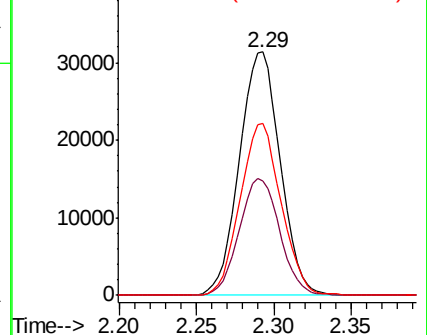
151 70.6 58.2 87.2



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: 4.782 ug/L

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

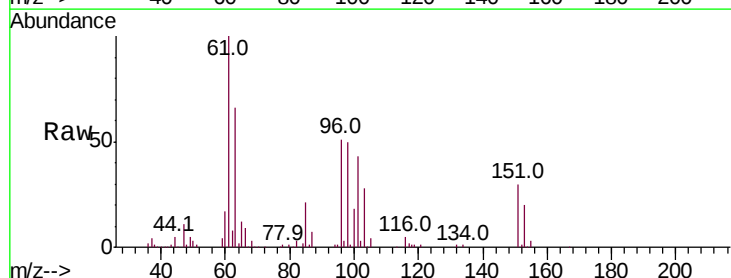
Tgt Ion: 96 Resp: 56382

Ion Ratio Lower Upper

96 100

61 196.8 134.8 250.3

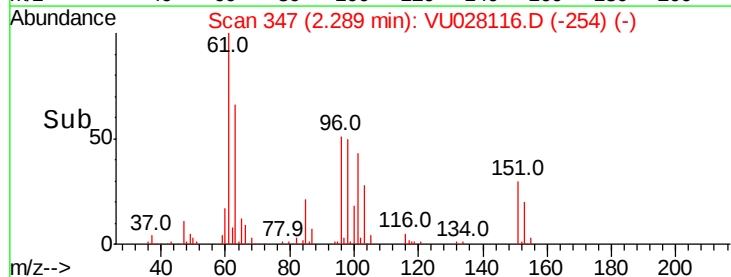
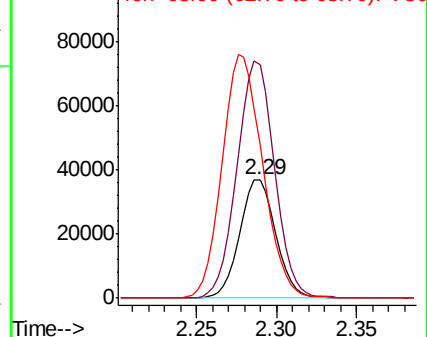
63 129.2 100.1 185.9

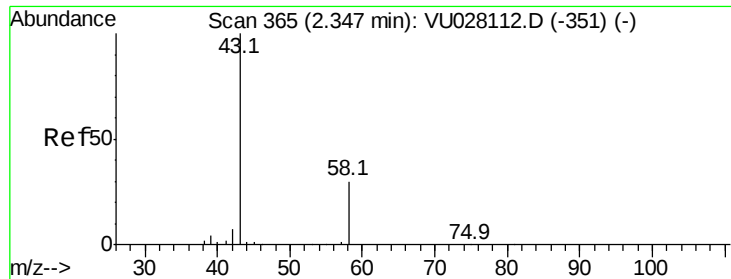


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 49.316 ug/L

RT: 2.35 min Scan# 366

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Instrument :

MSVOA_U

ClientSampleId :

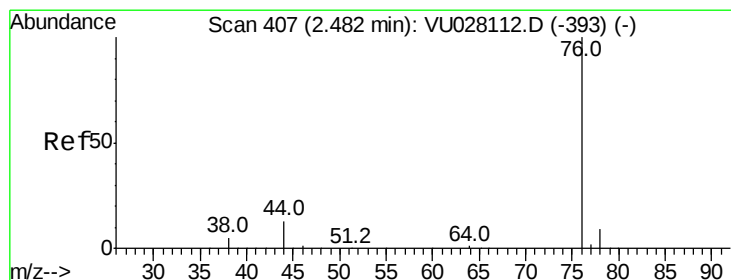
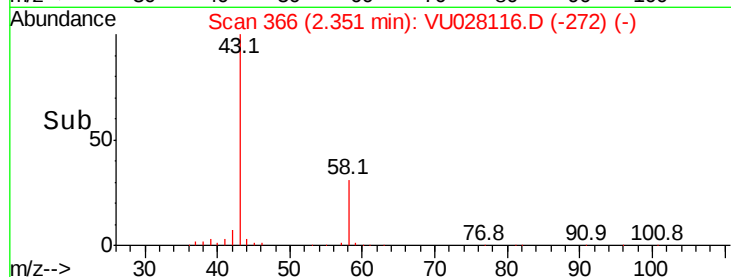
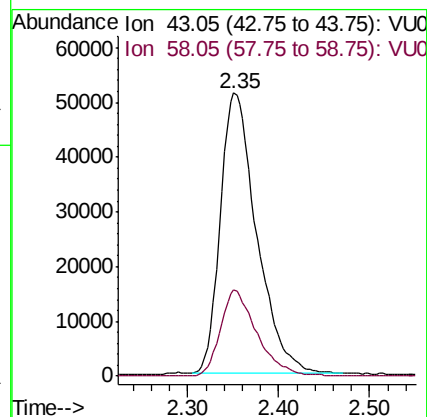
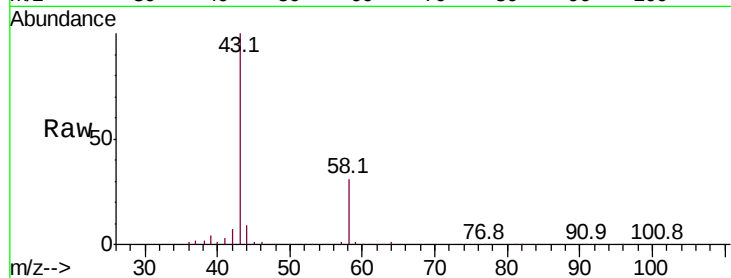
VSTD00506

Tot Ion: 43 Resp: 141738

Ion Ratio Lower Upper

43 100

58 30.9 0.0 61.6



#14

Carbon disulfide

Concen: 4.812 ug/L

RT: 2.48 min Scan# 406

Delta R.T. -0.00 min

Lab File: VU028116.D

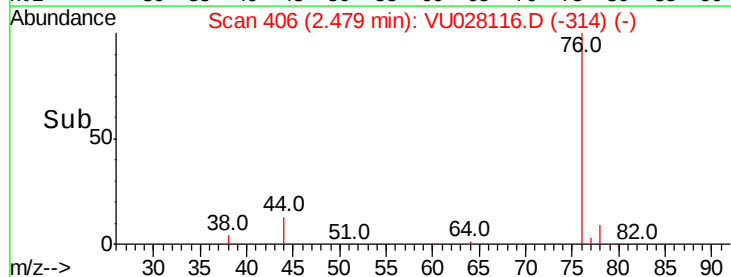
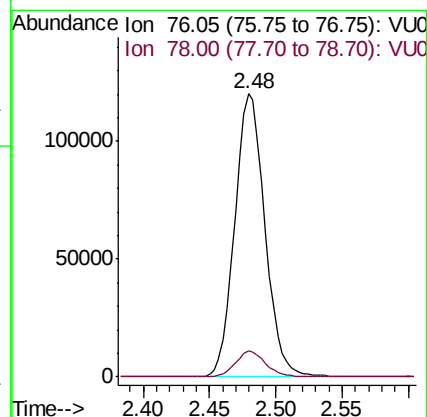
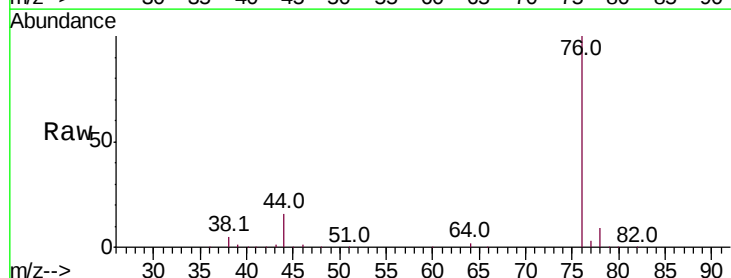
Acq: 14 Nov 2018 12:35

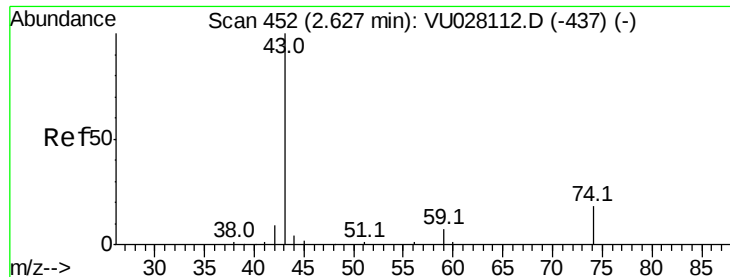
Tgt Ion: 76 Resp: 190242

Ion Ratio Lower Upper

76 100

78 9.2 7.0 10.4

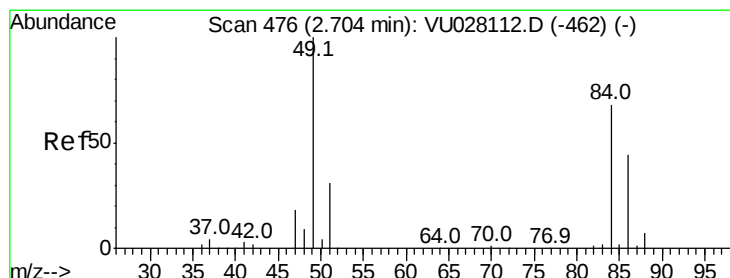
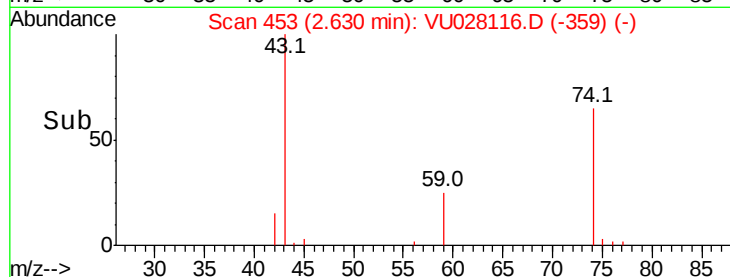
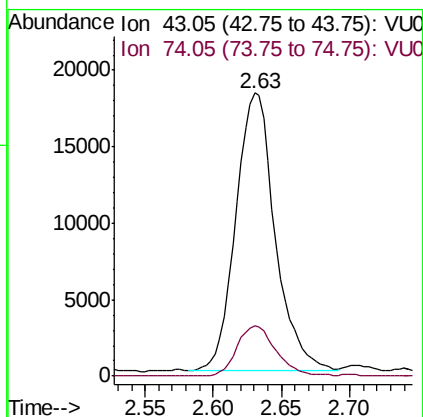
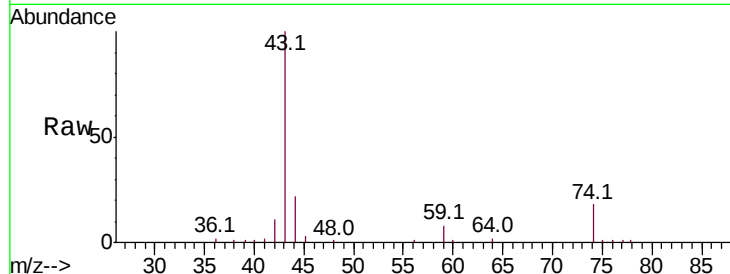




#15
Methvl Acetate
Concen: 4.735 ug/L
RT: 2.63 min Scan# 453
Delta R.T. 0.00 min
Lab File: VU028116.D
Acq: 14 Nov 2018 12:35

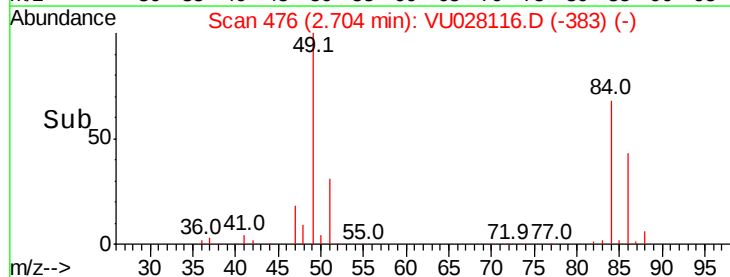
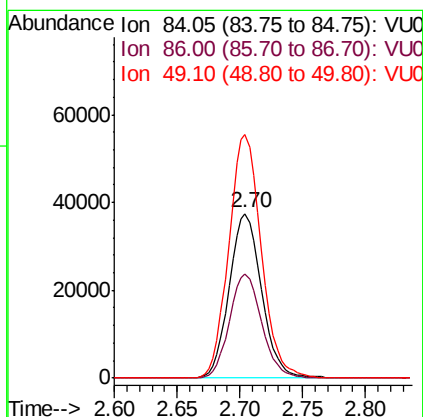
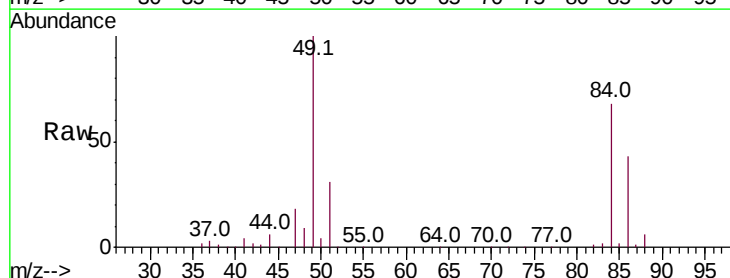
Instrument :
MSVOA_U
ClientSampleId :
VSTD00506

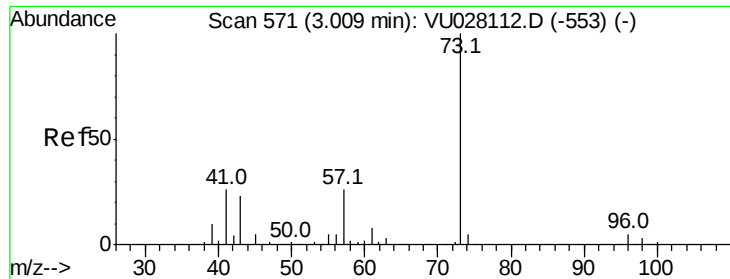
Tot Ion: 43 Resp: 36390
Ion Ratio Lower Upper
43 100
74 18.2 14.9 22.3



#16
Methylene chloride
Concen: 4.831 ug/L
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU028116.D
Acq: 14 Nov 2018 12:35

Tgt Ion: 84 Resp: 67286
Ion Ratio Lower Upper
84 100
86 63.3 44.6 82.8
49 148.0 102.5 190.3

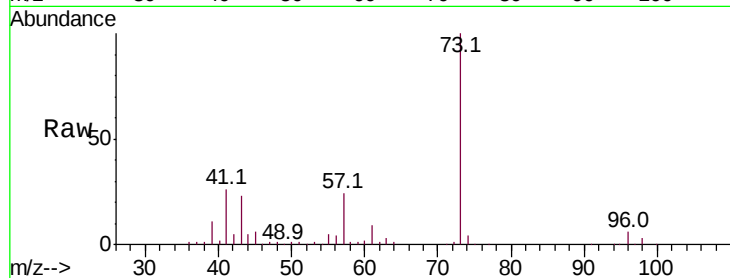




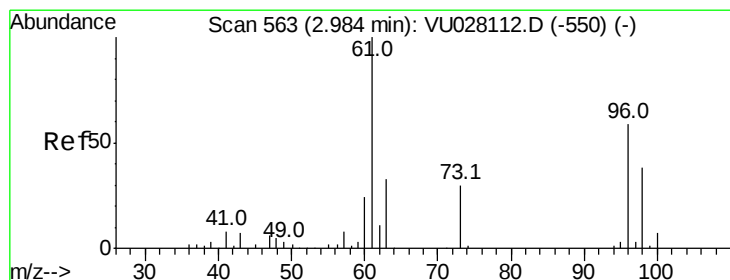
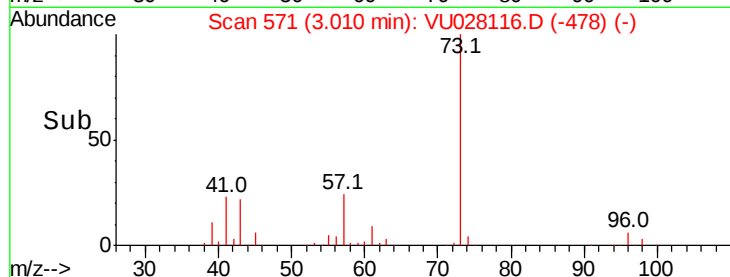
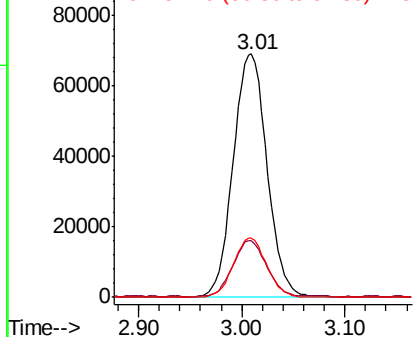
#17
Methvl tert-butvl Ether
Concen: 4.793 ug/L
RT: 3.01 min Scan# 571
Delta R.T. 0.00 min
Lab File: VU028116.D
Acq: 14 Nov 2018 12:35

Instrument :
MSVOA_U
ClientSampleId :
VSTD00506

Tot Ion: 73 Resp: 157976
Ion Ratio Lower Upper
73 100
43 22.9 18.1 27.1
57 24.0 20.0 30.0

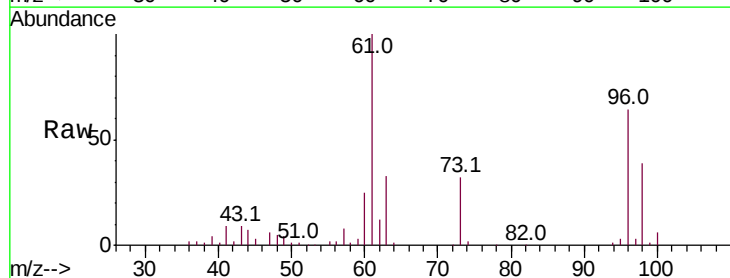


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

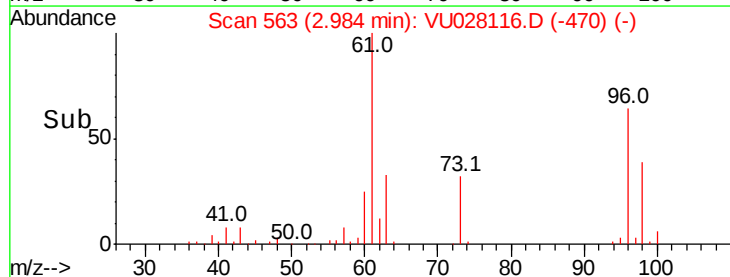
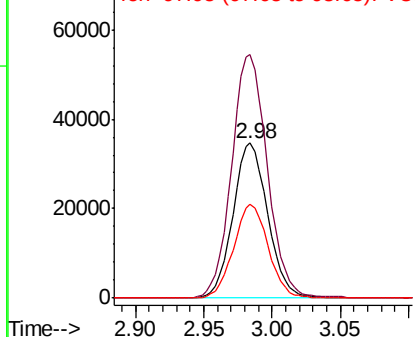


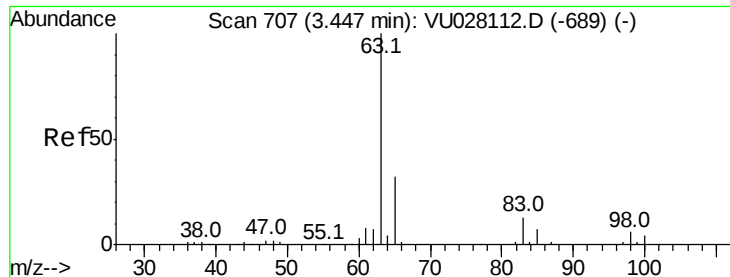
#18
trans-1,2-Dichloroethene
Concen: 4.894 ug/L
RT: 2.98 min Scan# 563
Delta R.T. 0.00 min
Lab File: VU028116.D
Acq: 14 Nov 2018 12:35

Tgt Ion: 96 Resp: 61342
Ion Ratio Lower Upper
96 100
61 157.1 118.5 220.1
98 60.6 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0



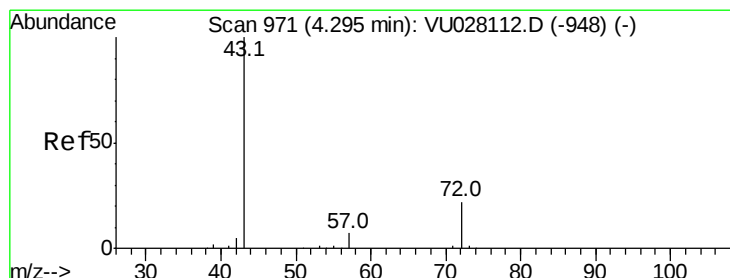
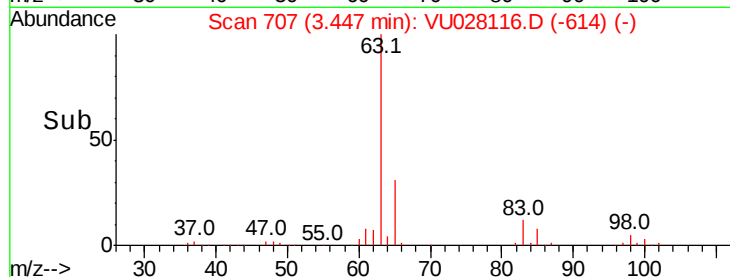
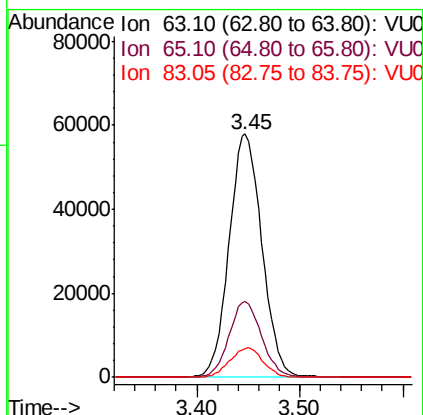
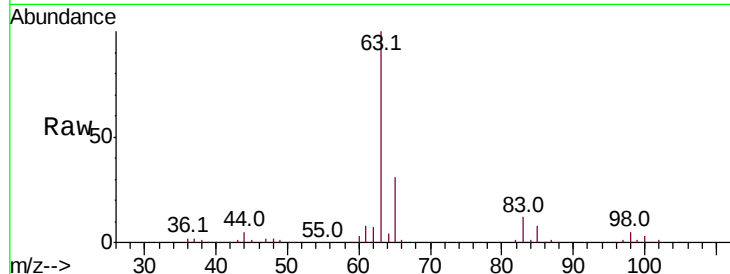


#19
 1,1-Dichloroethane
 Concen: 4.867 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VU028116.D
 Acq: 14 Nov 2018 12:35

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00506

Tot Ion: 63 Resp: 128306

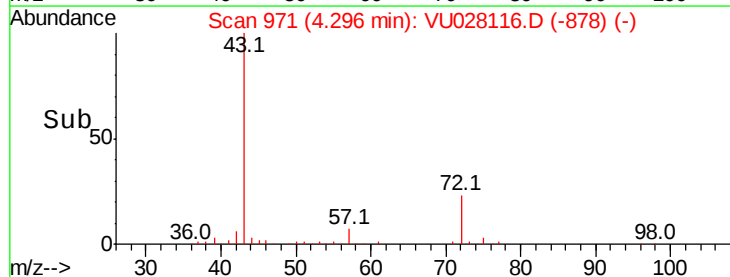
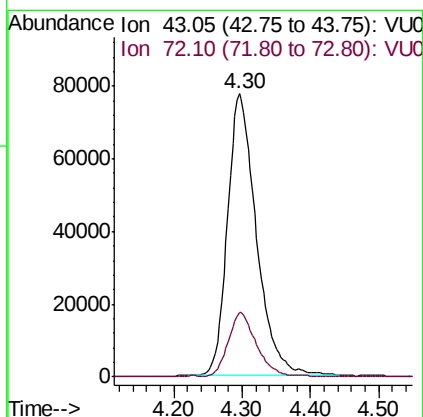
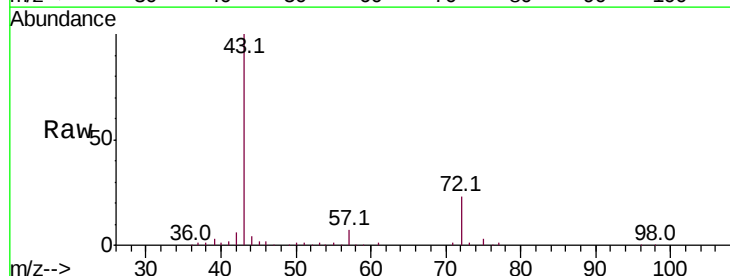
Ion	Ratio	Lower	Upper
63	100		
65	31.0	22.2	41.2
83	11.7	8.9	16.5

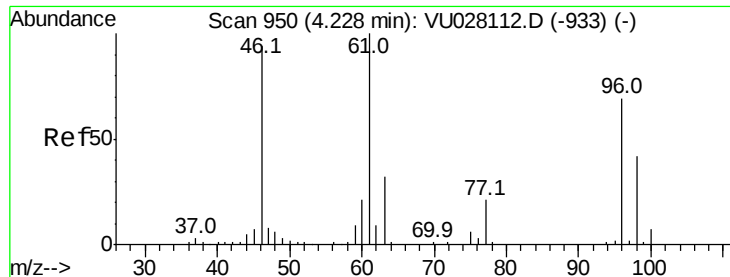


#21
 2-Butanone
 Concen: 50.281 ug/L
 RT: 4.30 min Scan# 971
 Delta R.T. 0.00 min
 Lab File: VU028116.D
 Acq: 14 Nov 2018 12:35

Tgt Ion: 43 Resp: 228061

Ion	Ratio	Lower	Upper
43	100		
72	21.8	11.0	33.0





#22

cis-1,2-Dichloroethene

Concen: 4.859 ug/L

RT: 4.23 min Scan# 950

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Instrument :

MSVOA_U

ClientSampled :

VSTD00506

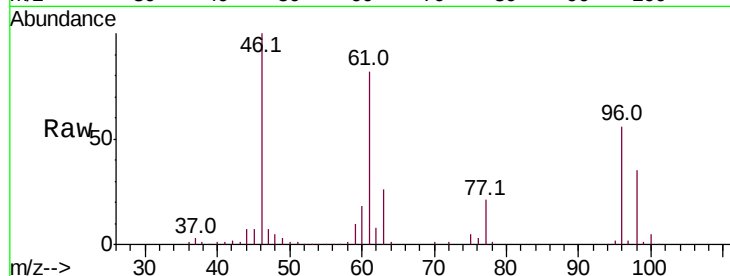
Tot Ion: 96 Resp: 67149

Ion Ratio Lower Upper

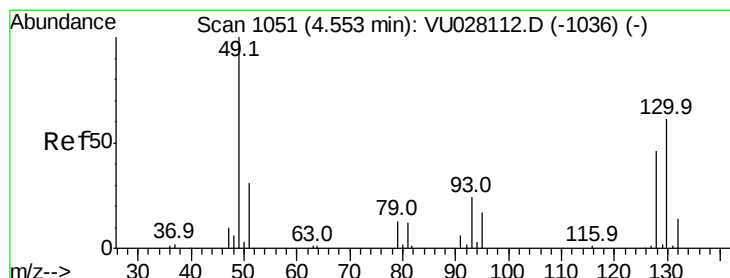
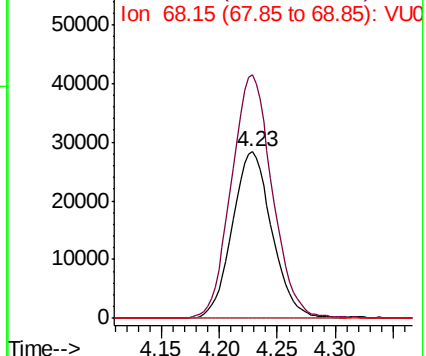
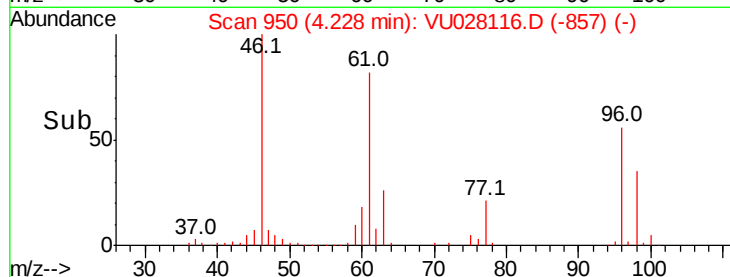
96 100

61 146.2 101.8 189.0

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU028116.D (-857) (-)



#23

Bromochloromethane

Concen: 4.812 ug/L

RT: 4.55 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Tgt Ion: 128 Resp: 26278

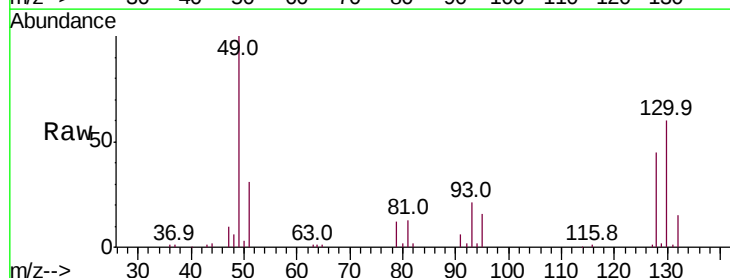
Ion Ratio Lower Upper

128 100

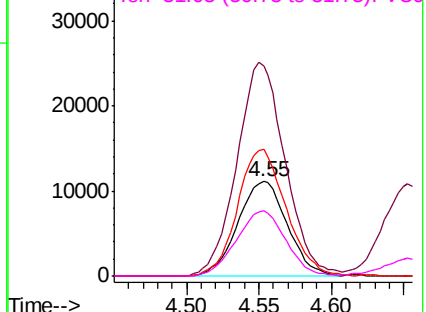
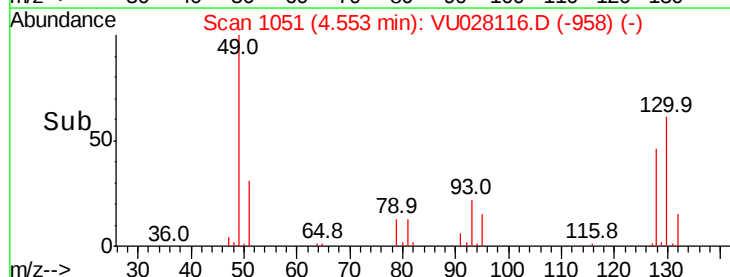
49 222.4 152.2 282.6

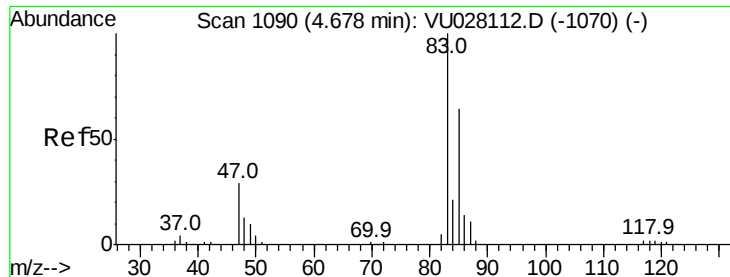
130 133.6 93.2 173.0

51 68.6 53.5 80.3



Abundance Ion 127.90 (127.60 to 128.60): VU028116.D (-958) (-)

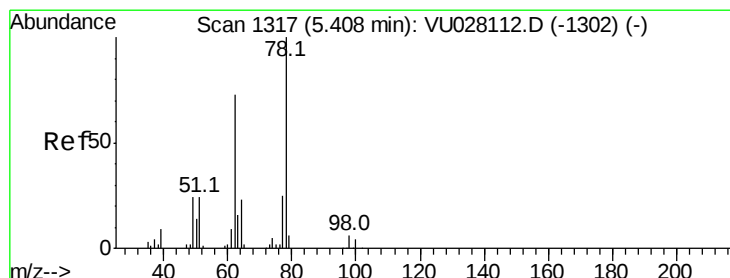
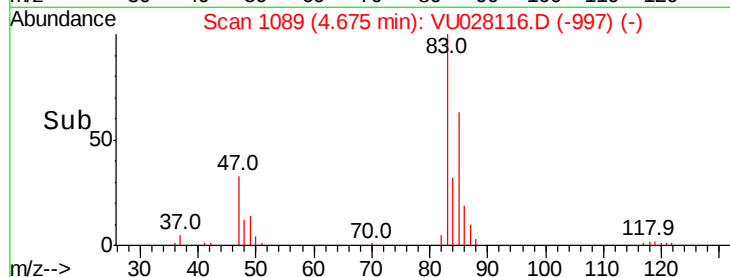
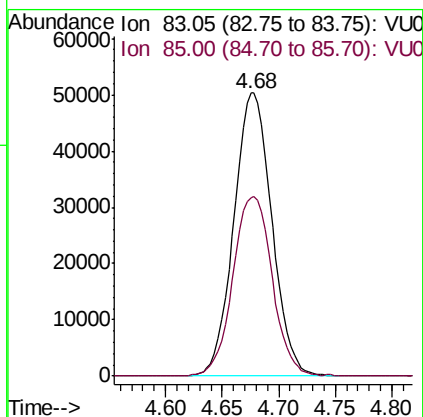
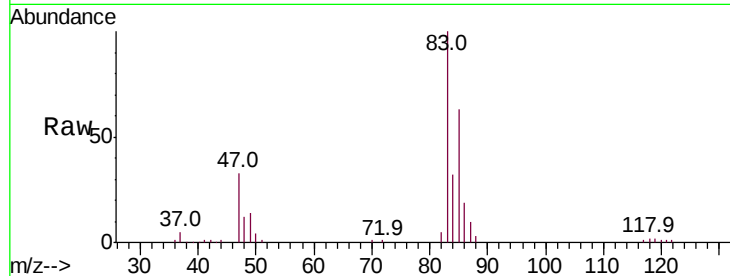




#25
Chloroform
Concen: 4.978 ug/L
RT: 4.68 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU028116.D
Acq: 14 Nov 2018 12:35

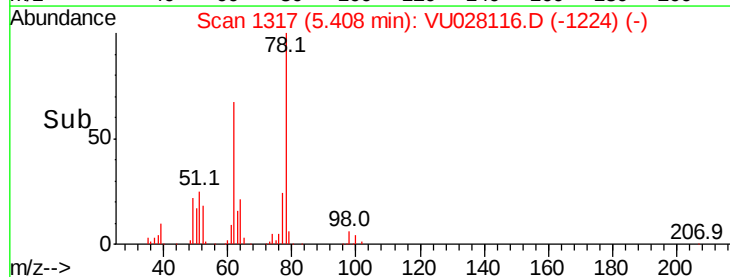
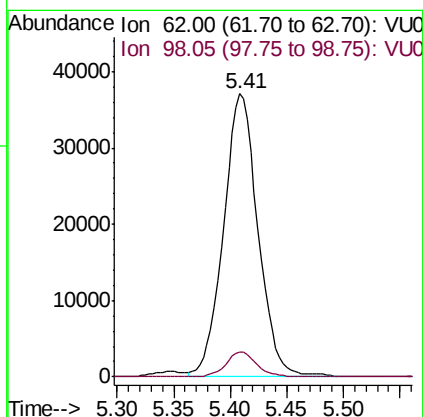
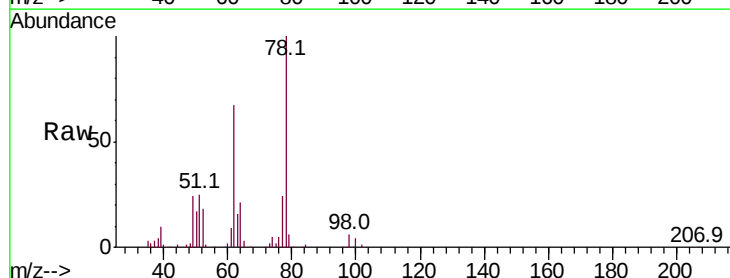
Instrument :
MSVOA_U
ClientSampleId :
VSTD00506

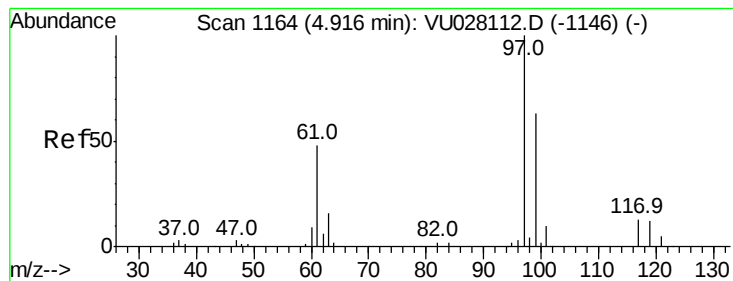
Tot Ion: 83 Resp: 117696
Ion Ratio Lower Upper
83 100
85 63.2 45.0 83.6



#27
1,2-Dichloroethane
Concen: 5.061 ug/L
RT: 5.41 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VU028116.D
Acq: 14 Nov 2018 12:35

Tgt Ion: 62 Resp: 78661
Ion Ratio Lower Upper
62 100
98 8.9 7.0 10.4





#29

1,1,1-Trichloroethane

Concen: 5.035 ug/L

RT: 4.92 min Scan# 1164

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD00506

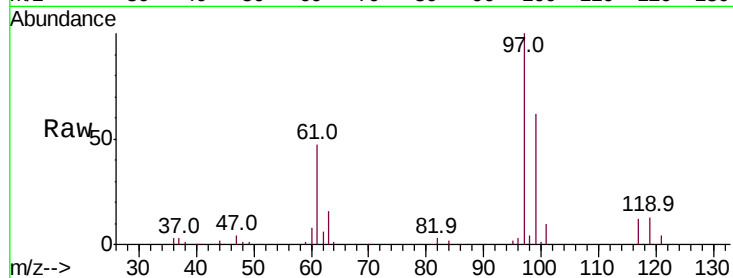
Tot Ion: 97 Resp: 94217

Ion Ratio Lower Upper

97 100

99 62.7 51.2 76.8

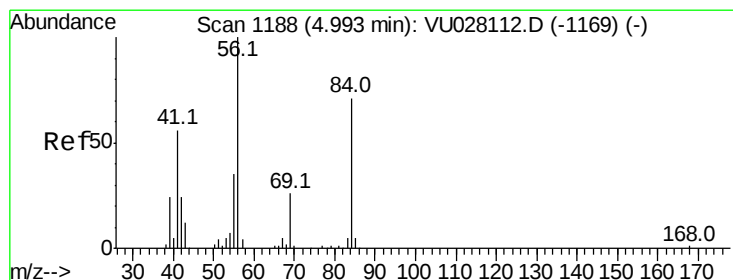
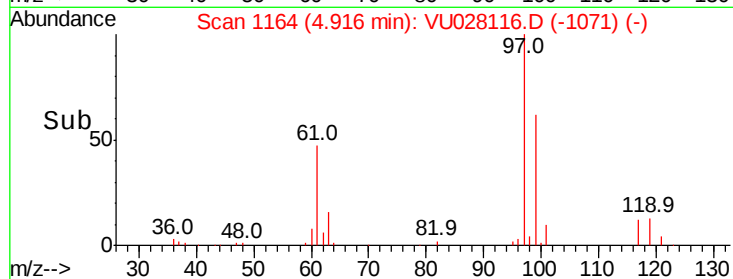
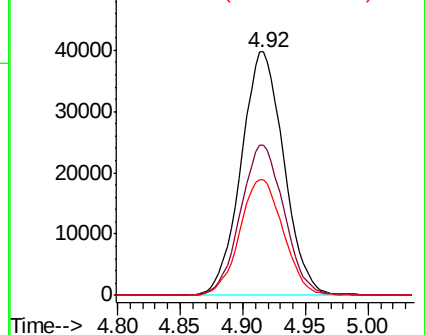
61 48.4 39.4 59.2



Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 61.05 (60.75 to 61.75): VU0



#30

Cyclohexane

Concen: 5.003 ug/L

RT: 4.99 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

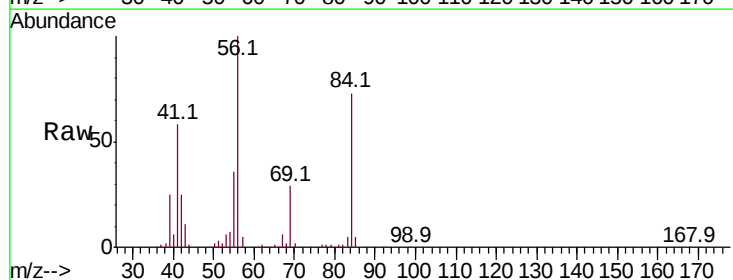
Tgt Ion: 56 Resp: 131283

Ion Ratio Lower Upper

56 100

69 27.7 22.6 33.8

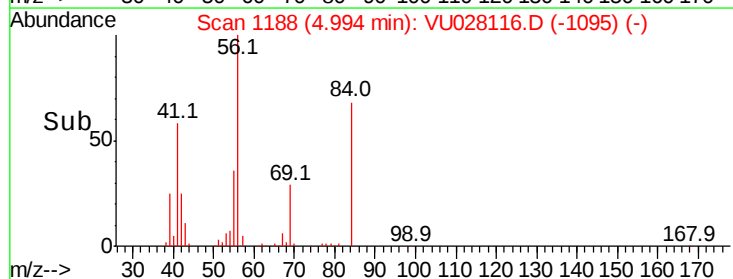
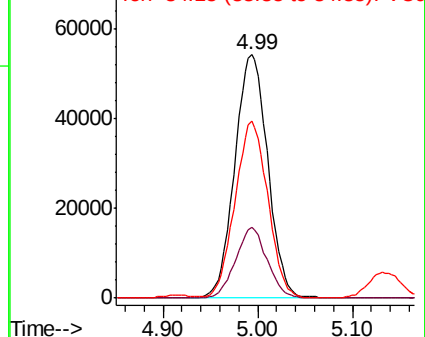
84 71.8 57.7 86.5

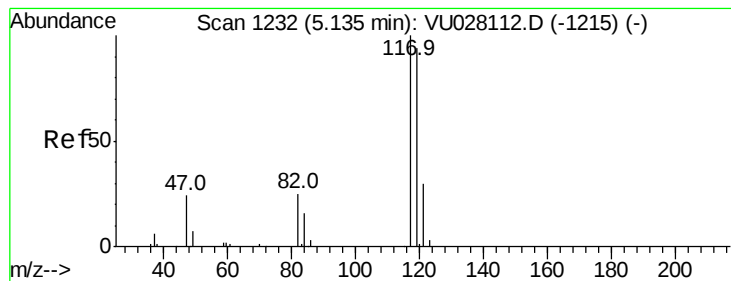


Abundance Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 5.009 ug/L

RT: 5.13 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Instrument :

MSVOA_U

ClientSampleId :

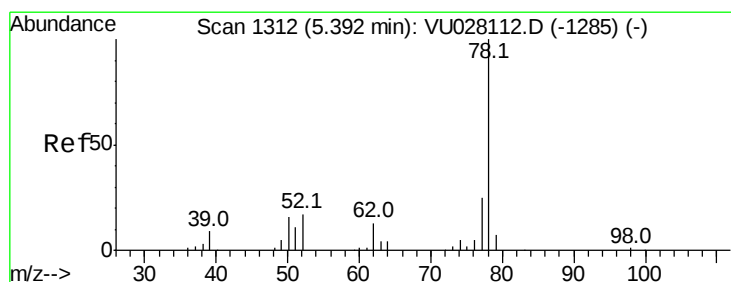
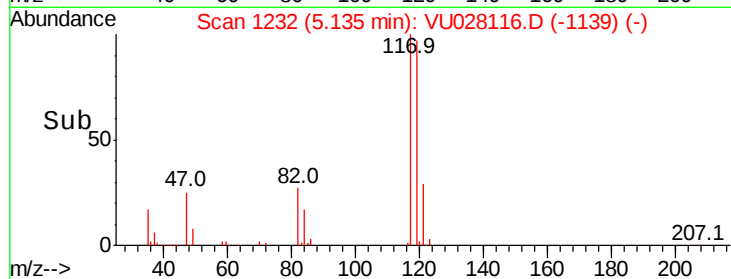
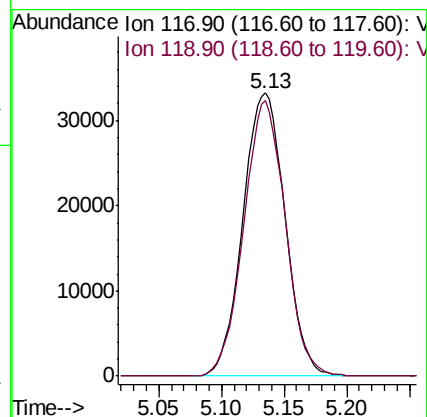
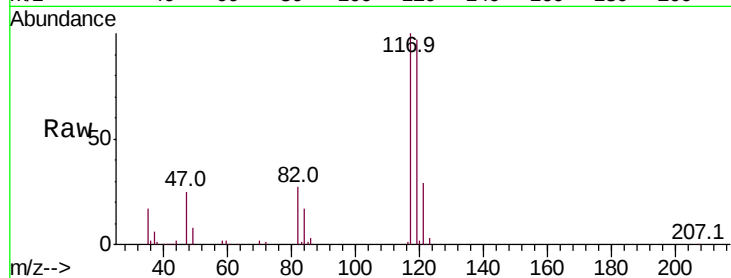
VSTD00506

Tot Ion:117 Resp: 77798

Ion Ratio Lower Upper

117 100

119 95.6 75.7 113.5



#33

Benzene

Concen: 4.943 ug/L

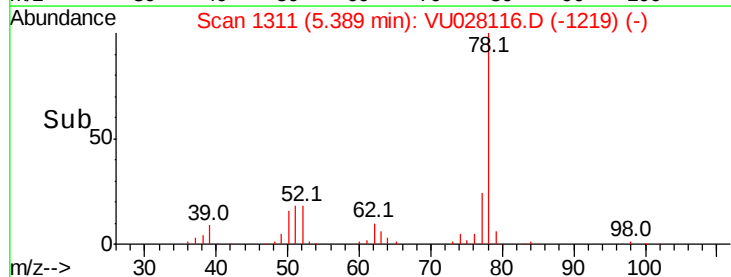
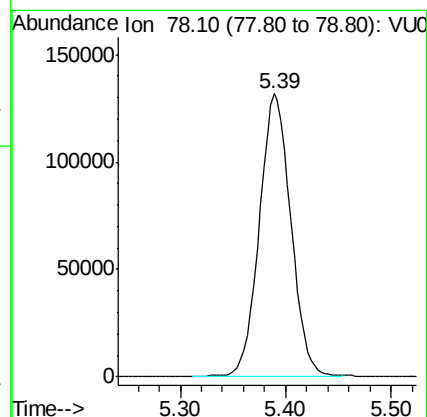
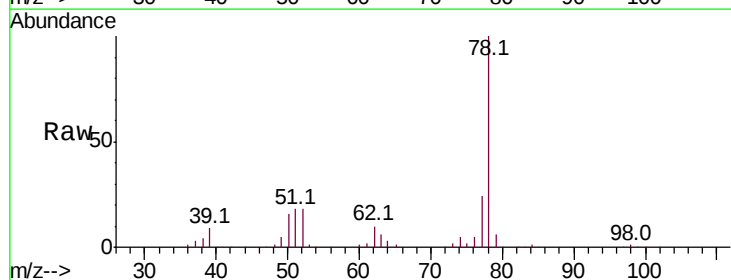
RT: 5.39 min Scan# 1311

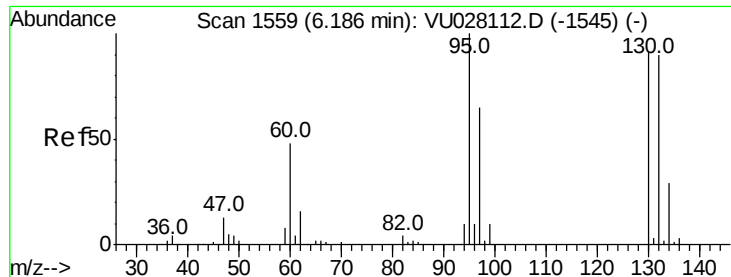
Delta R.T. -0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Tgt Ion: 78 Resp: 275328





#34

Trichloroethene

Concen: 4.915 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD00506

Tot Ion: 95 Resp: 67664

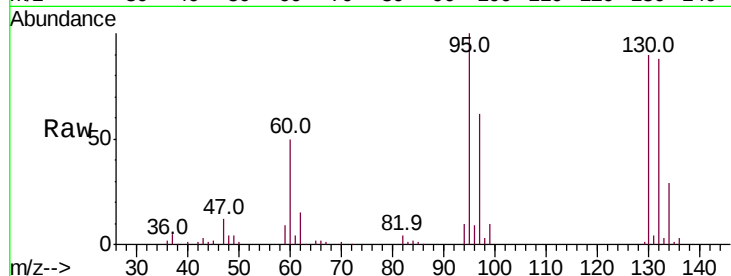
Ion Ratio Lower Upper

95 100

97 62.0 45.3 84.1

132 87.8 63.0 117.0

130 90.4 63.6 118.2

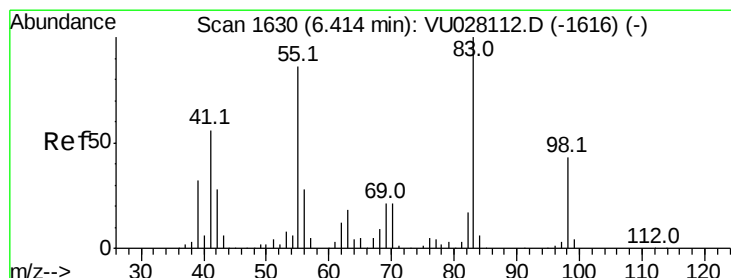
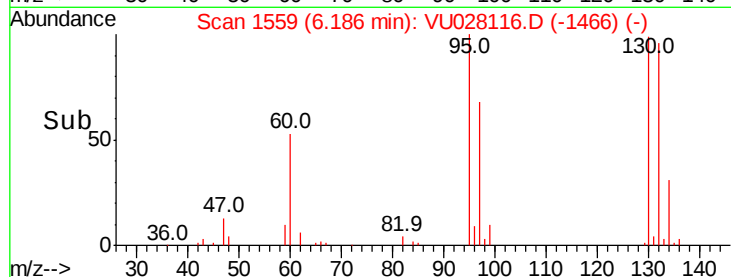
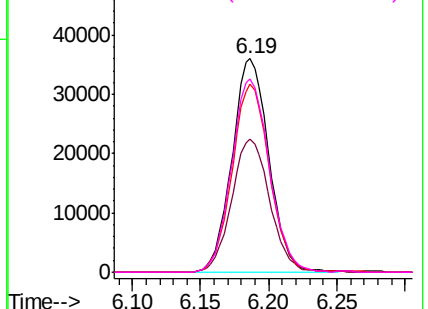


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 5.031 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

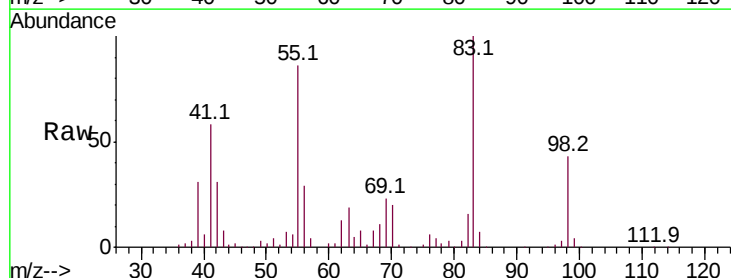
Tgt Ion: 83 Resp: 119058

Ion Ratio Lower Upper

83 100

55 86.5 69.0 103.4

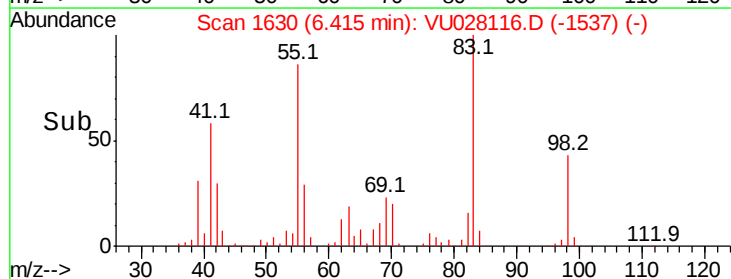
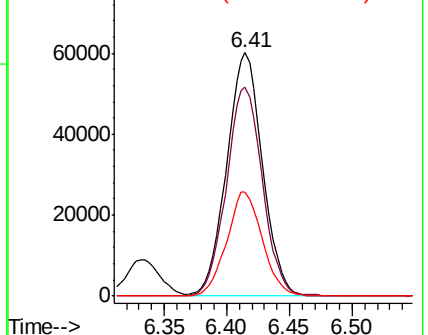
98 42.6 33.3 49.9

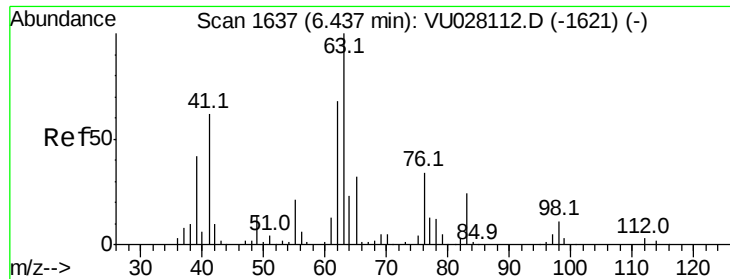


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

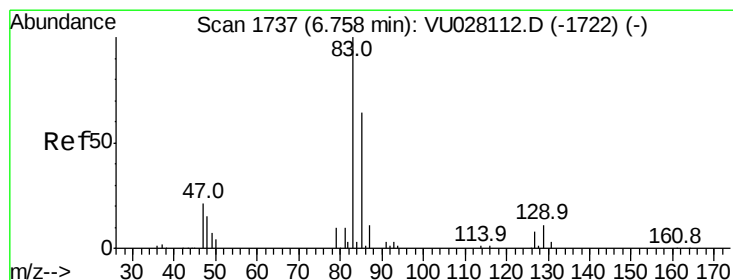
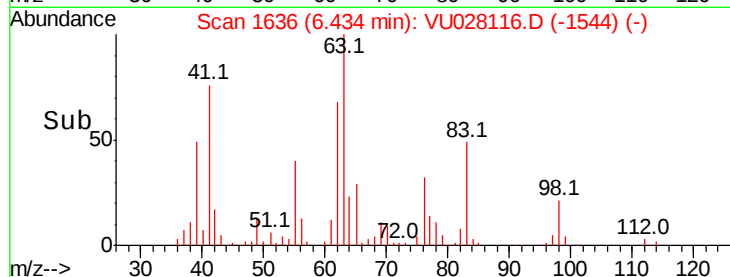
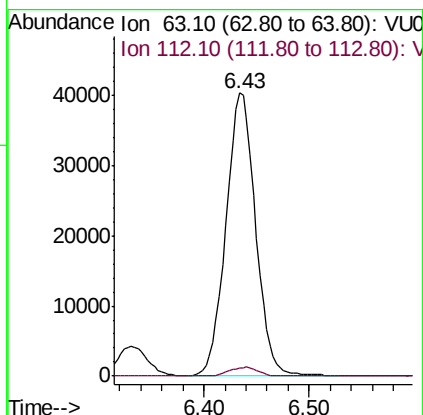
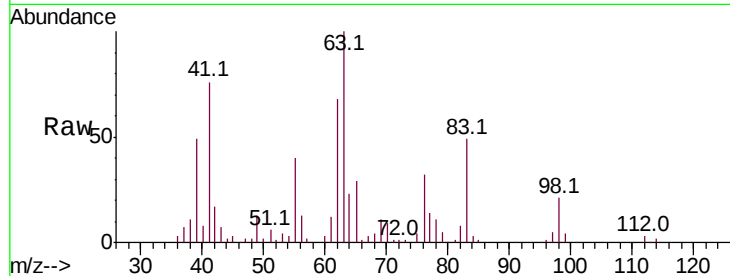




#37
 1,2-Dichloropropane
 Concen: 5.094 ug/L
 RT: 6.43 min Scan# 1636
 Delta R.T. -0.00 min
 Lab File: VU028116.D
 Acq: 14 Nov 2018 12:35

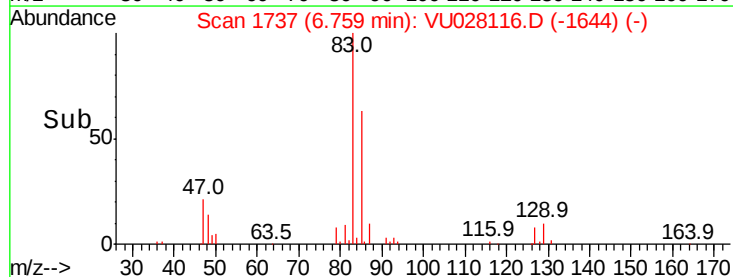
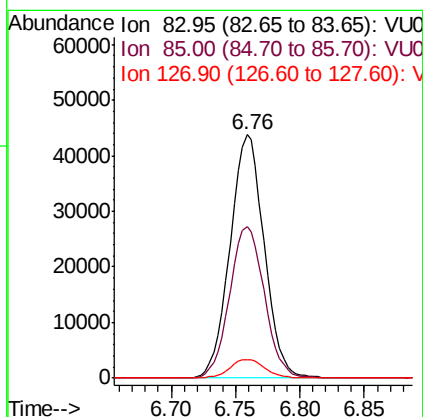
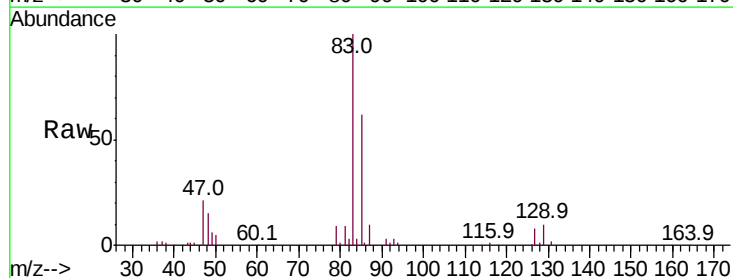
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00506

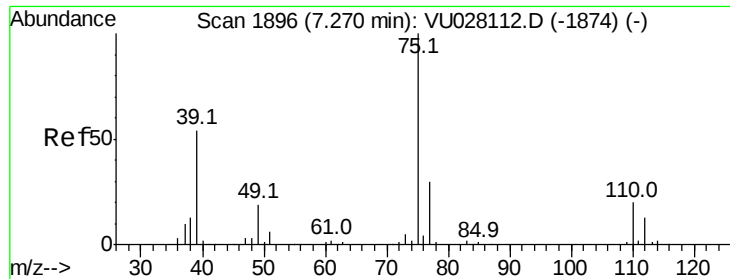
Tot Ion: 63 Resp: 78471
 Ion Ratio Lower Upper
 63 100
 112 3.0 2.2 3.4



#38
 Bromodichloromethane
 Concen: 4.916 ug/L
 RT: 6.76 min Scan# 1737
 Delta R.T. 0.00 min
 Lab File: VU028116.D
 Acq: 14 Nov 2018 12:35

Tgt Ion: 83 Resp: 80567
 Ion Ratio Lower Upper
 83 100
 85 62.2 44.5 82.7
 127 7.8 6.8 10.2

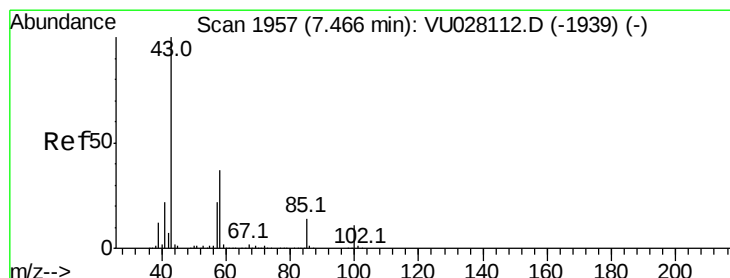
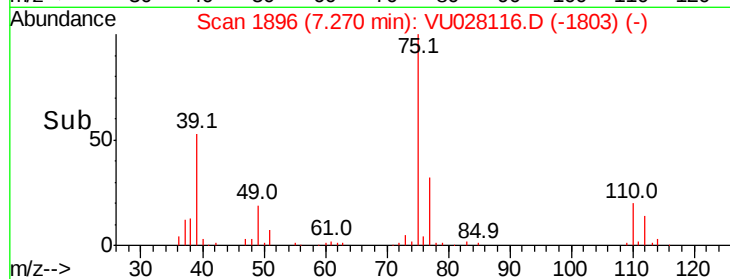
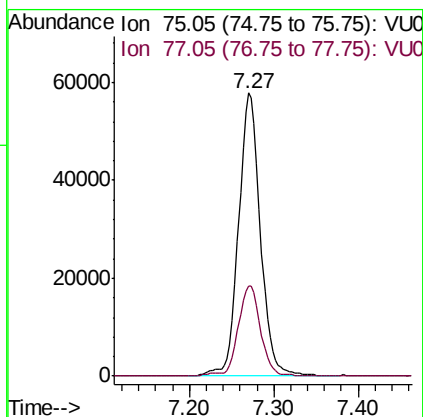
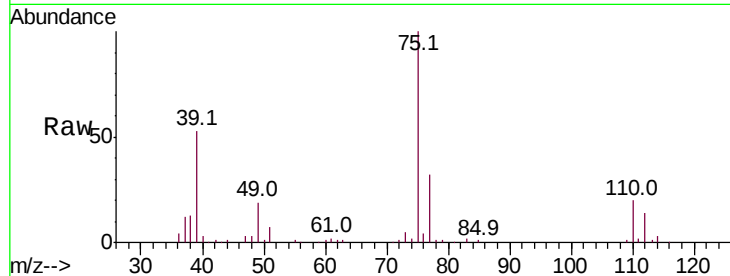




#39
 cis-1,3-Dichloropropene
 Concen: 5.048 ug/L
 RT: 7.27 min Scan# 1896
 Delta R.T. 0.00 min
 Lab File: VU028116.D
 Acq: 14 Nov 2018 12:35

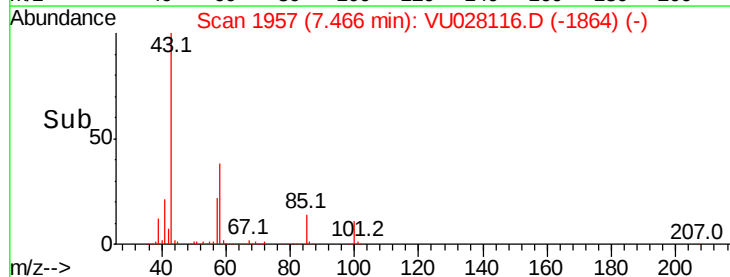
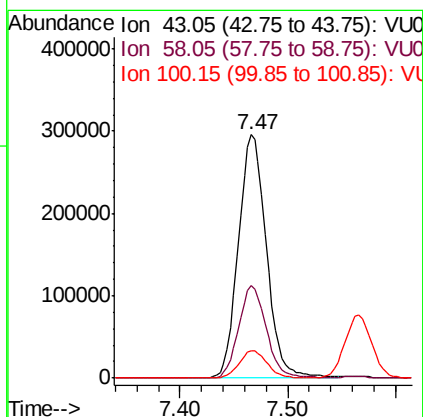
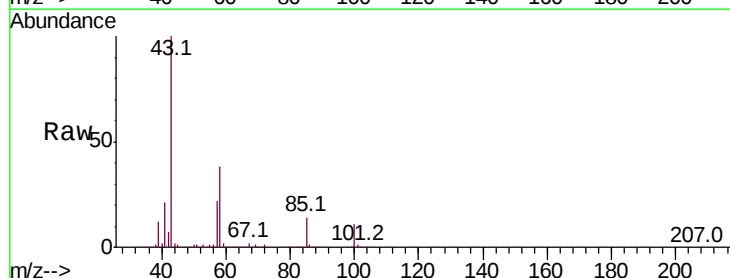
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00506

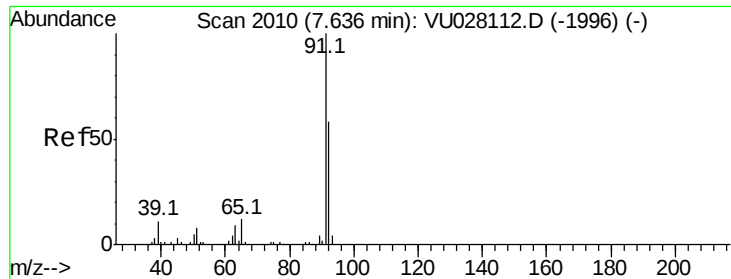
Tot Ion: 75 Resp: 105136
 Ion Ratio Lower Upper
 75 100
 77 31.9 20.9 38.9



#40
 4-Methyl-2-pentanone
 Concen: 50.167 ug/L
 RT: 7.47 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VU028116.D
 Acq: 14 Nov 2018 12:35

Tgt Ion: 43 Resp: 532146
 Ion Ratio Lower Upper
 43 100
 58 37.6 29.9 44.9
 100 11.3 9.1 13.7





#42

Toluene

Concen: 4.958 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Instrument :

MSVOA_U

ClientSampleId :

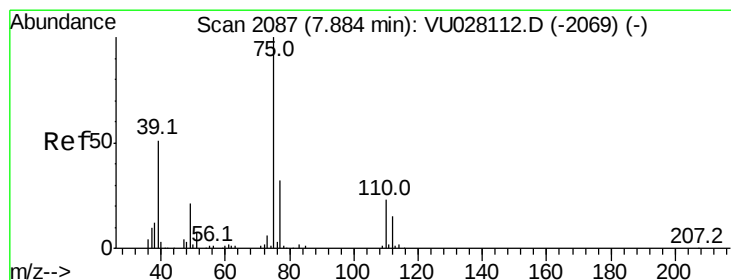
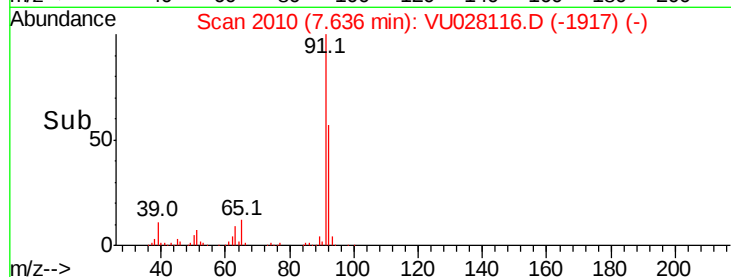
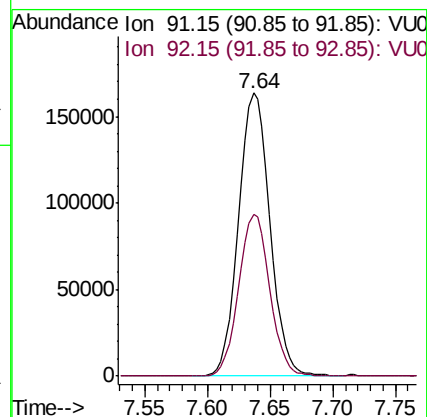
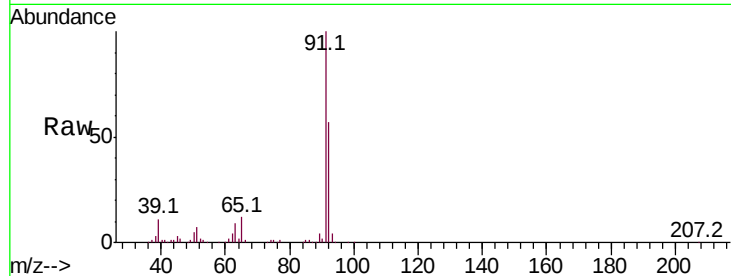
VSTD00506

Tot Ion: 91 Resp: 284736

Ion Ratio Lower Upper

91 100

92 57.3 40.7 75.7



#44

trans-1,3-Dichloropropene

Concen: 4.947 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. -0.00 min

Lab File: VU028116.D

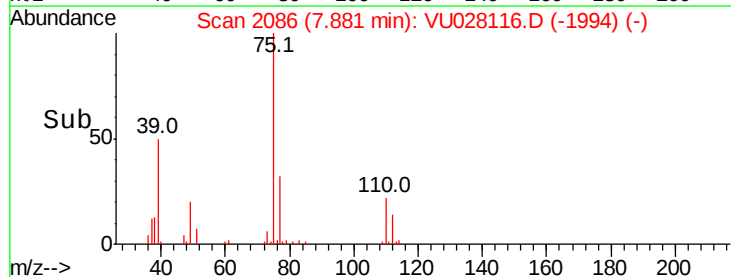
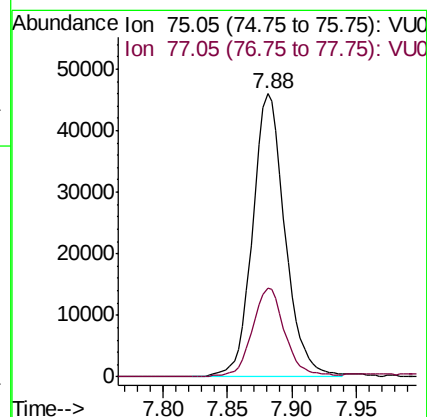
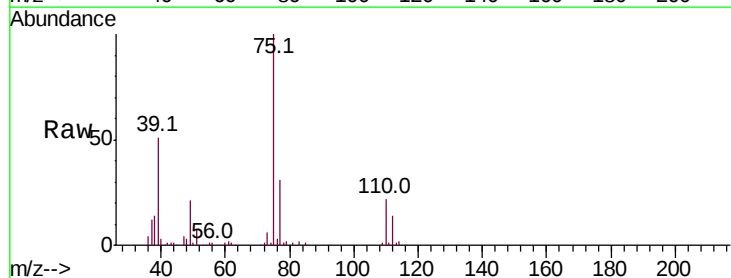
Acq: 14 Nov 2018 12:35

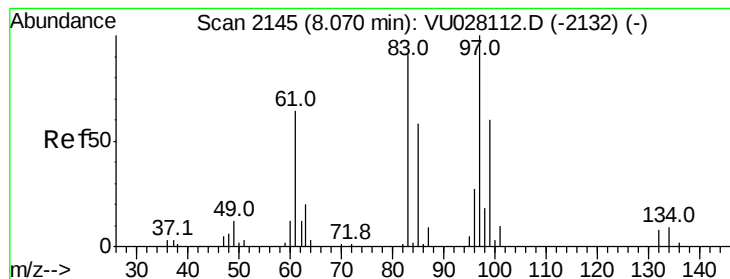
Tgt Ion: 75 Resp: 80739

Ion Ratio Lower Upper

75 100

77 31.5 22.5 41.7





#45

1,1,2-Trichloroethane

Concen: 4.984 ug/L

RT: 8.07 min Scan# 2145

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD00506

Tot Ion: 97 Resp: 46354

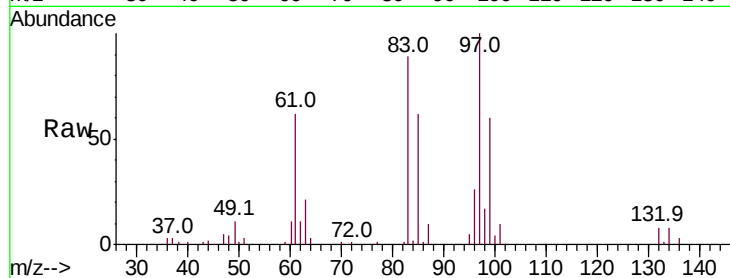
Ion Ratio Lower Upper

97 100

99 60.0 42.1 78.1

83 89.2 63.7 118.3

85 61.7 40.6 75.4

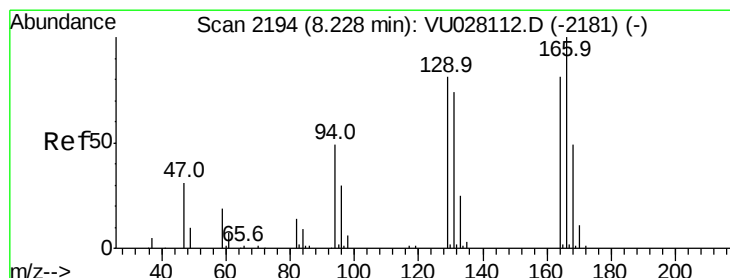
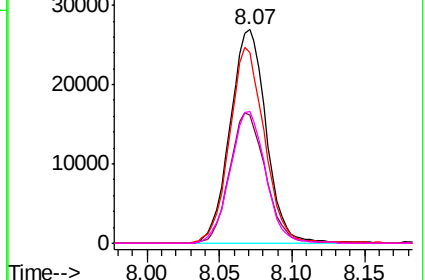
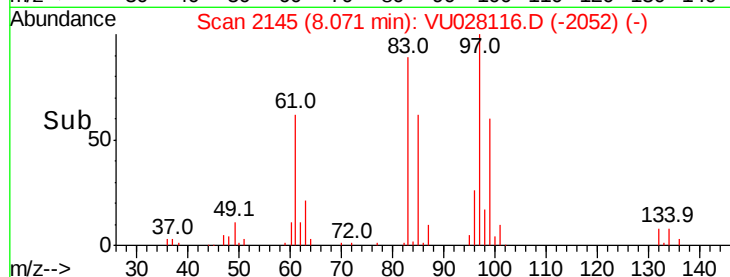


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 4.449 ug/L

RT: 8.22 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Tgt Ion:164 Resp: 49801

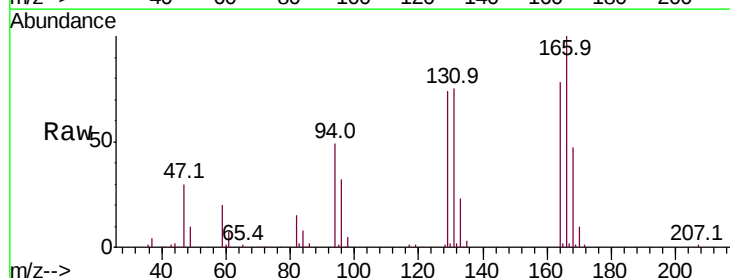
Ion Ratio Lower Upper

164 100

129 94.8 69.7 129.4

131 96.2 64.0 118.8

166 128.4 86.4 160.4

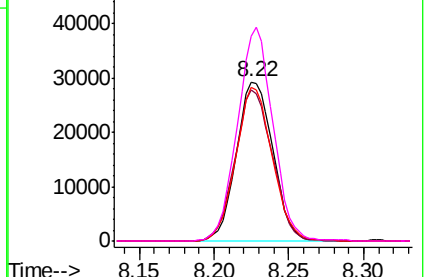
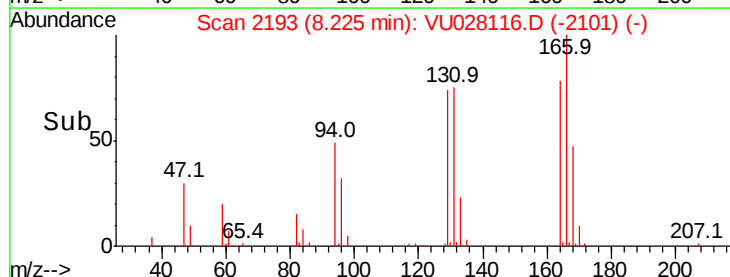


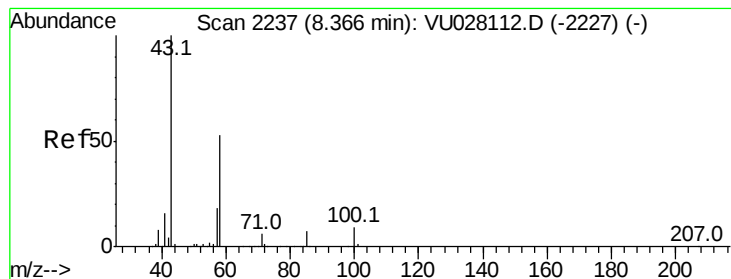
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V





#48

2-Hexanone

Concen: 50.868 ug/L

RT: 8.37 min Scan# 2237

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD00506

Tot Ion: 43 Resp: 383938

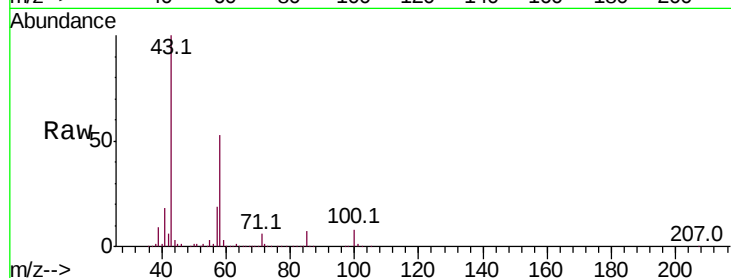
Ion Ratio Lower Upper

43 100

58 52.2 41.7 62.5

57 17.9 14.0 21.0

100 8.5 7.2 10.8

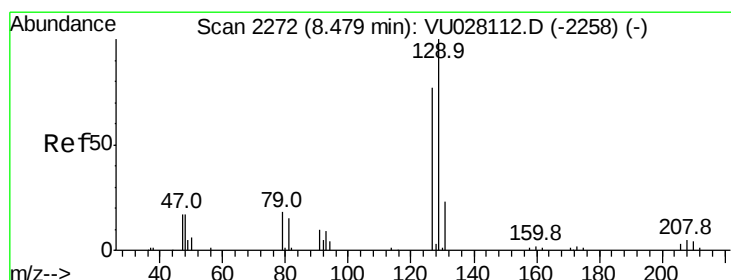
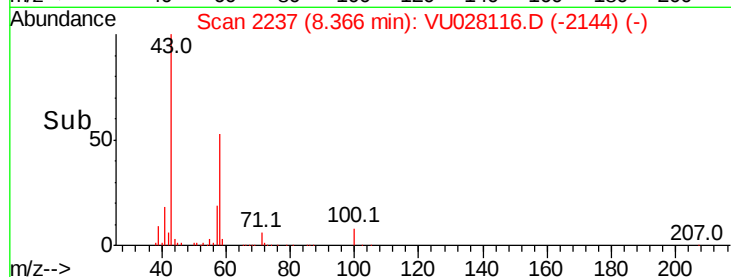
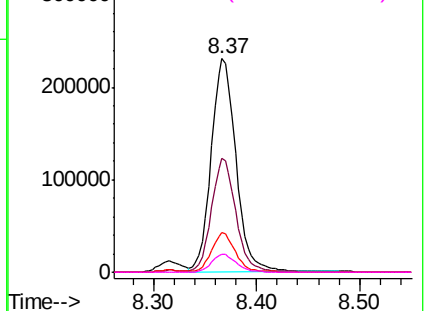


Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0



#49

Dibromochloromethane

Concen: 5.025 ug/L

RT: 8.48 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VU028116.D

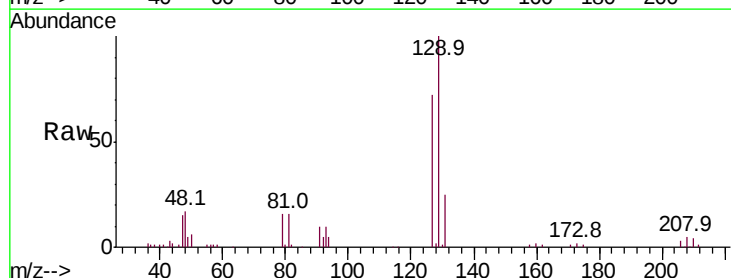
Acq: 14 Nov 2018 12:35

Tgt Ion: 129 Resp: 49744

Ion Ratio Lower Upper

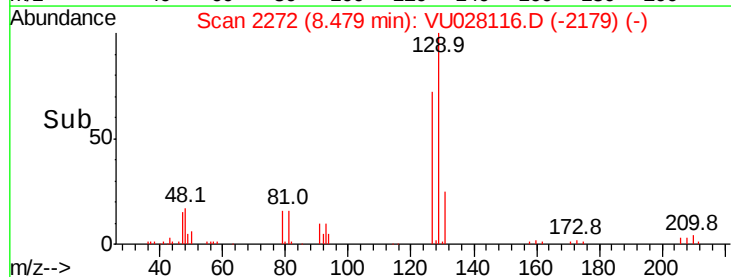
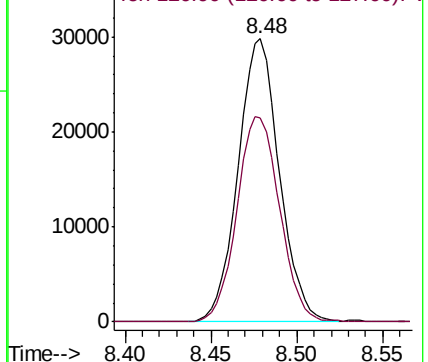
129 100

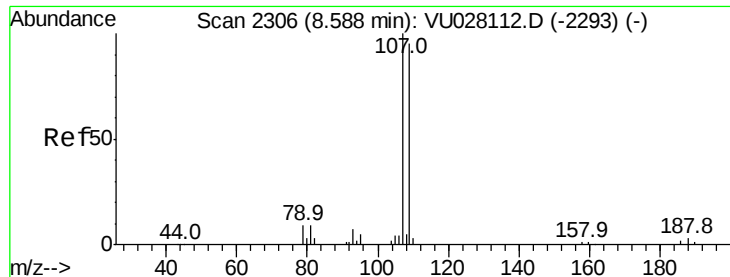
127 71.9 54.1 100.5



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

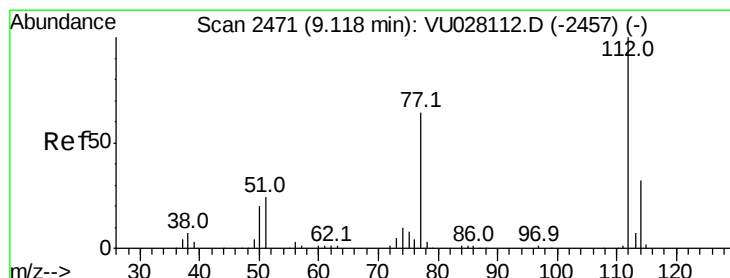
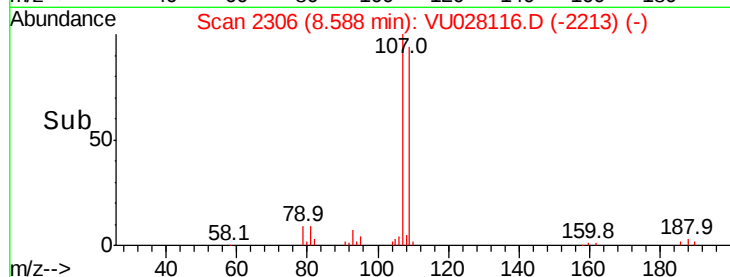
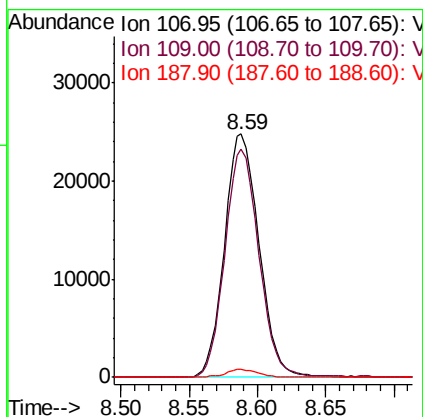
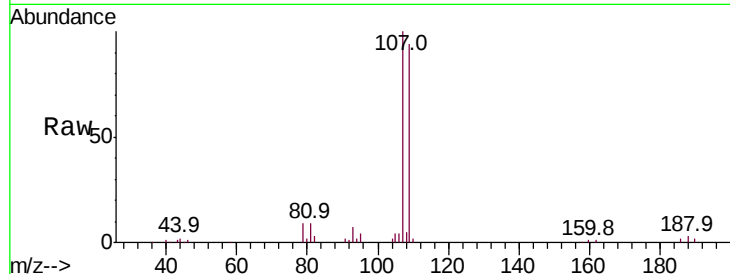




#50
 1,2-Dibromoethane
 Concen: 4.994 ug/L
 RT: 8.59 min Scan# 2306
 Delta R.T. 0.00 min
 Lab File: VU028116.D
 Acq: 14 Nov 2018 12:35

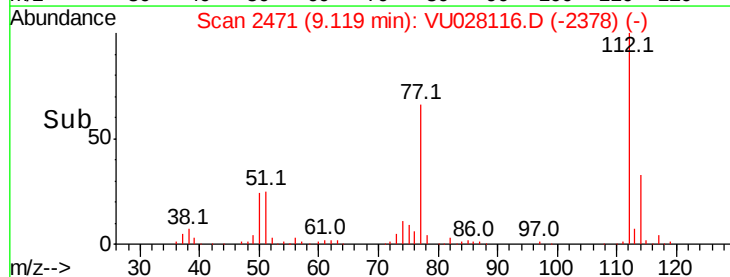
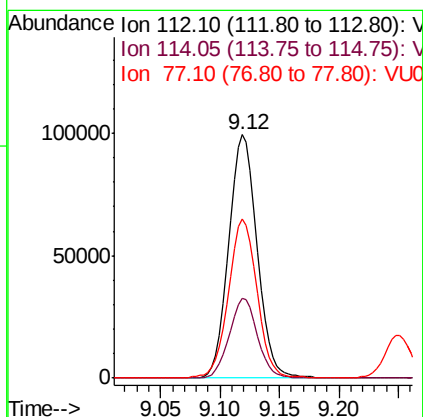
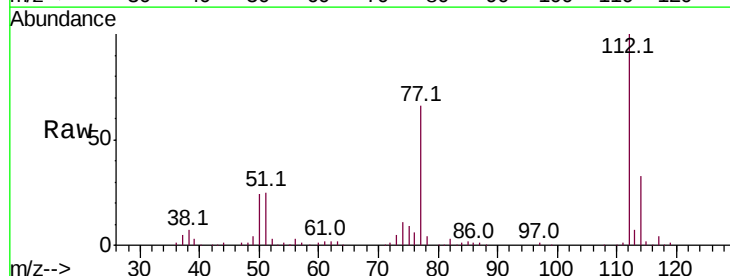
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00506

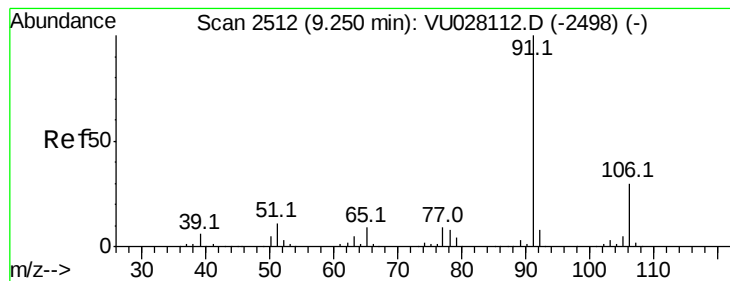
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.8	66.6	123.8
188	3.2	2.5	3.7



#51
 Chlorobenzene
 Concen: 4.897 ug/L
 RT: 9.12 min Scan# 2471
 Delta R.T. 0.00 min
 Lab File: VU028116.D
 Acq: 14 Nov 2018 12:35

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.6	22.5	41.7
77	65.6	51.3	76.9





#52

Ethylbenzene

Concen: 4.962 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Instrument :

MSVOA_U

ClientSampleId :

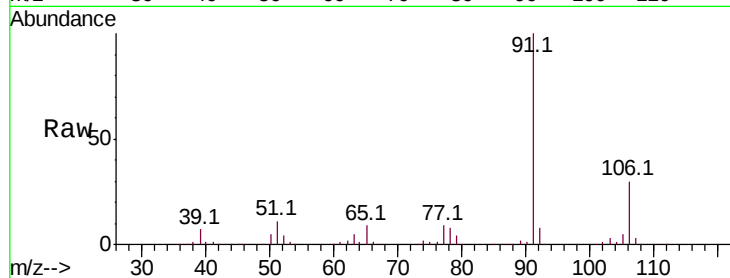
VSTD00506

Tot Ion: 91 Resp: 311060

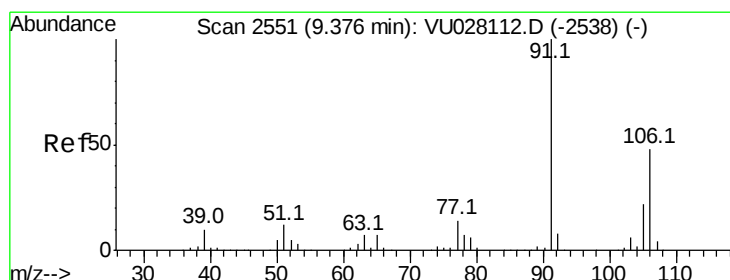
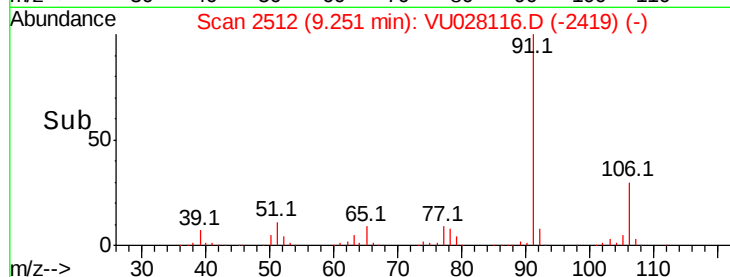
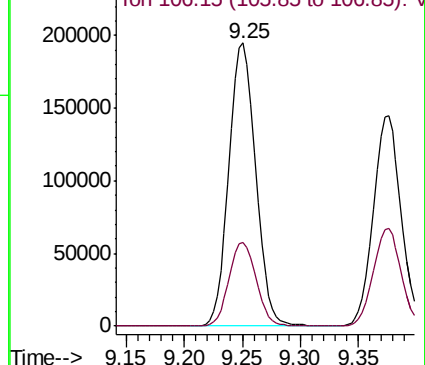
Ion Ratio Lower Upper

91 100

106 29.6 20.9 38.7



Abundance Ion 91.15 (90.85 to 91.85): VU028116.D (-2498) (-)



#53

m,p-xylene

Concen: 4.970 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU028116.D

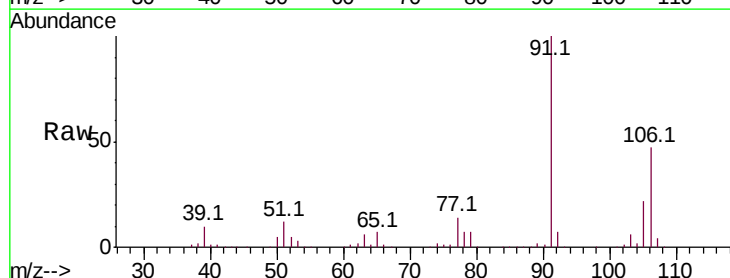
Acq: 14 Nov 2018 12:35

Tgt Ion: 106 Resp: 113506

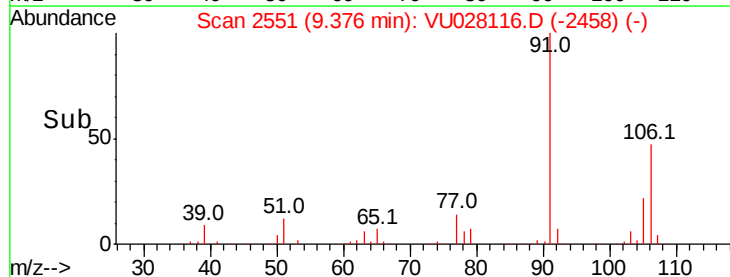
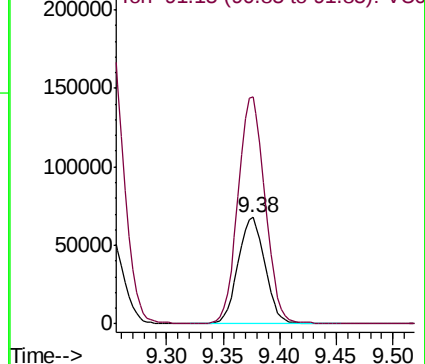
Ion Ratio Lower Upper

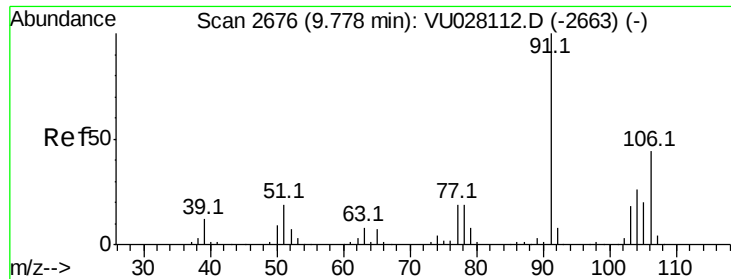
106 100

91 214.0 145.7 270.7



Abundance Ion 106.15 (105.85 to 106.85): VU028116.D (-2538) (-)





#54

o-xylene

Concen: 5.022 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Instrument :

MSVOA_U

ClientSampleId :

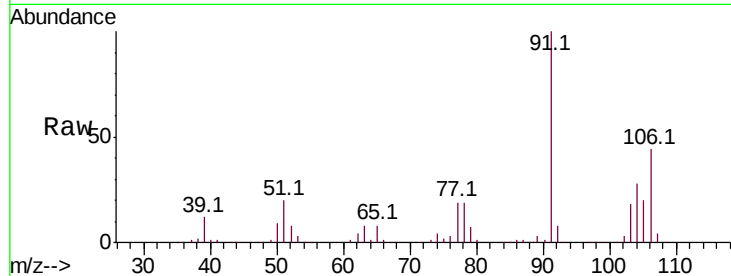
VSTD00506

Tot Ion:106 Resp: 110424

Ion Ratio Lower Upper

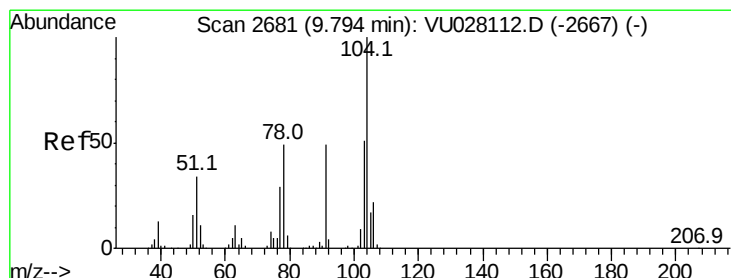
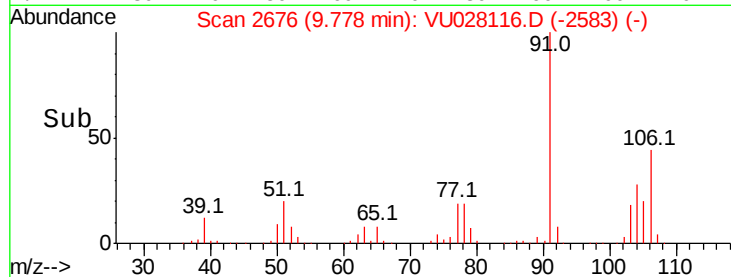
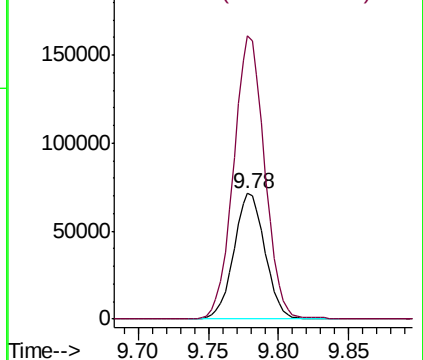
106 100

91 225.4 158.7 294.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 5.057 ug/L

RT: 9.79 min Scan# 2681

Delta R.T. 0.00 min

Lab File: VU028116.D

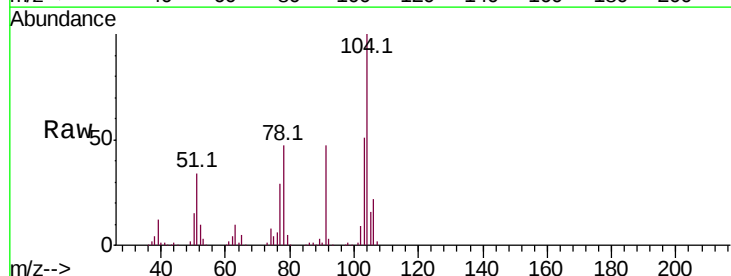
Acq: 14 Nov 2018 12:35

Tgt Ion:104 Resp: 188046

Ion Ratio Lower Upper

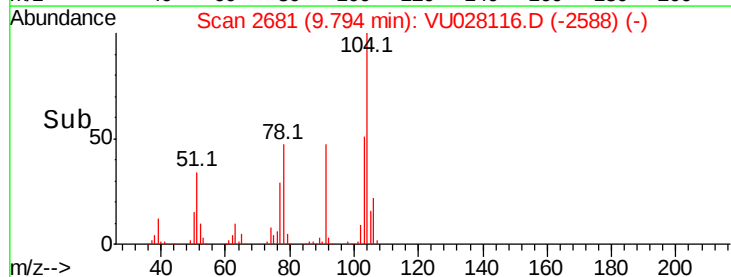
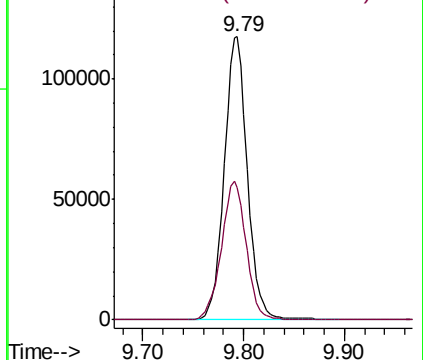
104 100

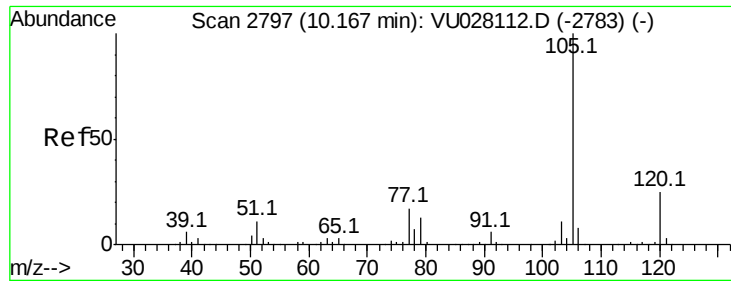
78 46.6 34.5 64.1



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.972 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD00506

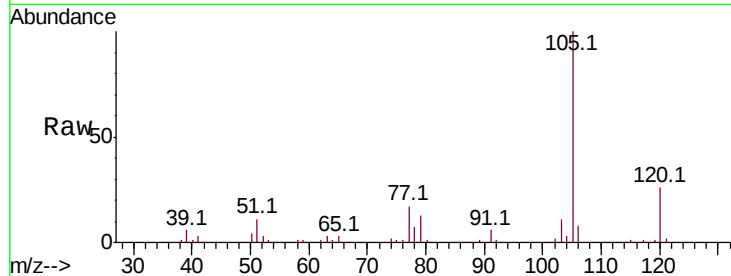
Tot Ion:105 Resp: 295706

Ion Ratio Lower Upper

105 100

120 25.4 20.5 30.7

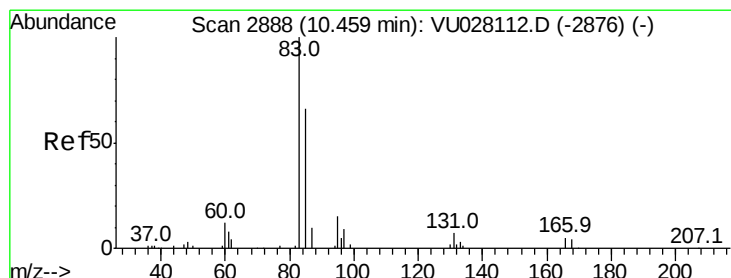
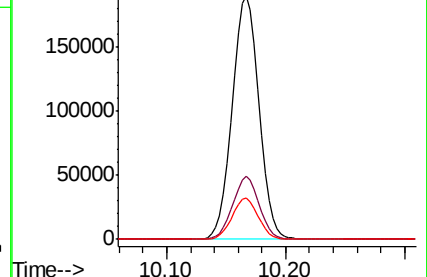
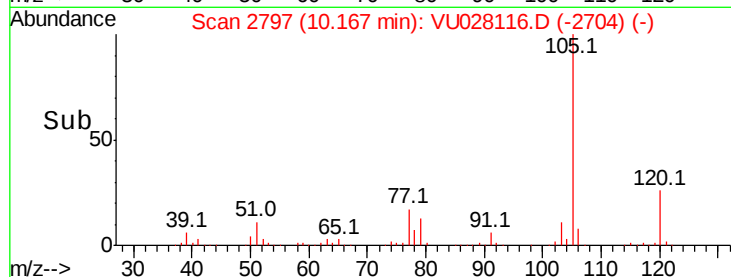
77 16.6 13.3 19.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.006 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

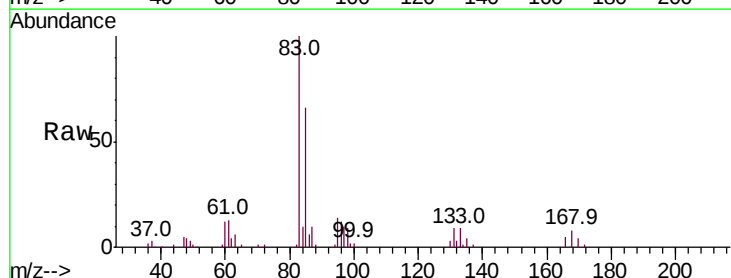
Tgt Ion: 83 Resp: 60007

Ion Ratio Lower Upper

83 100

85 66.3 46.7 86.7

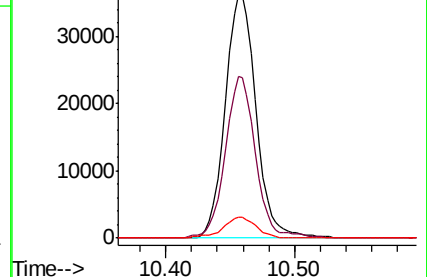
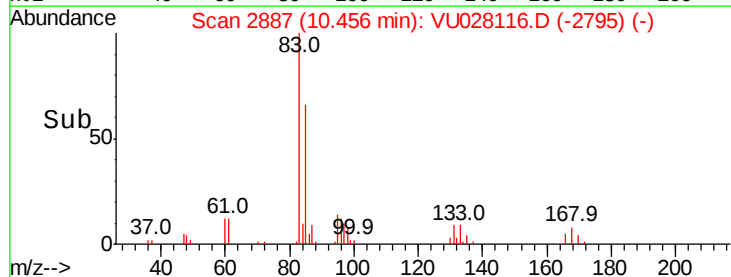
131 8.8 5.9 8.9

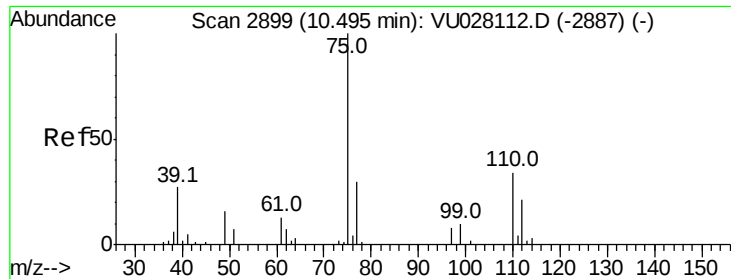


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

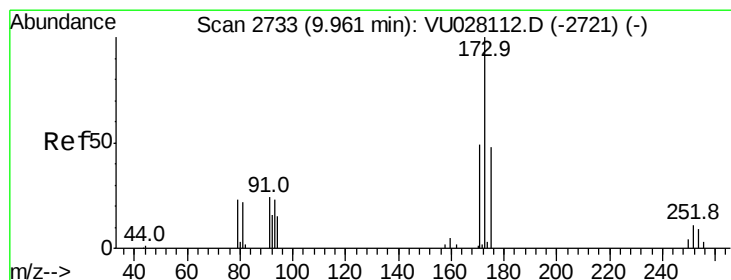
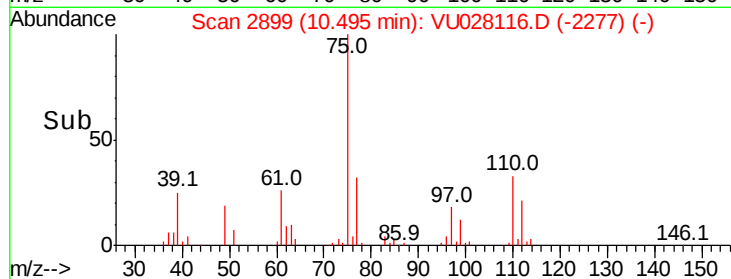
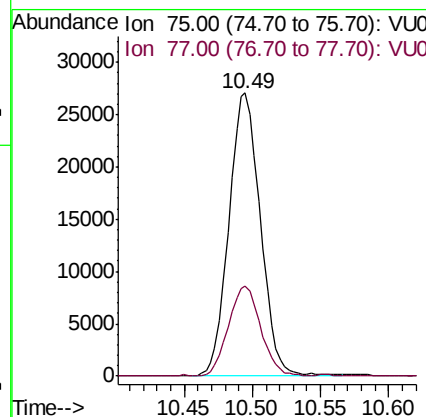
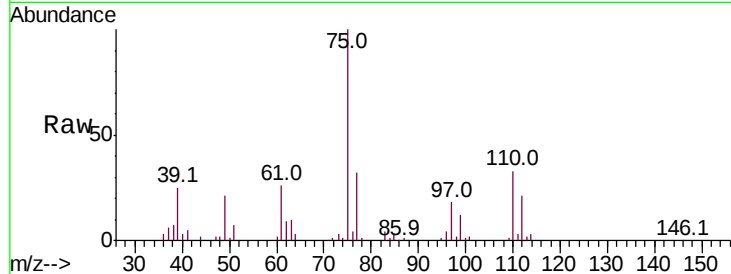




#59
 1,2,3-Trichloropropane
 Concen: 5.020 ug/L
 RT: 10.49 min Scan# 2899
 Delta R.T. 0.00 min
 Lab File: VU028116.D
 Acq: 14 Nov 2018 12:35

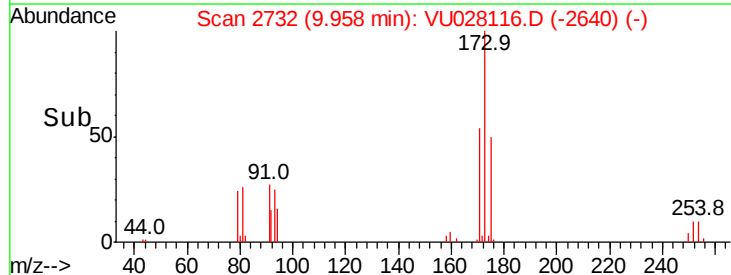
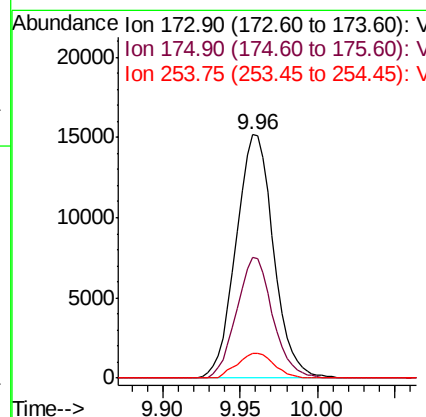
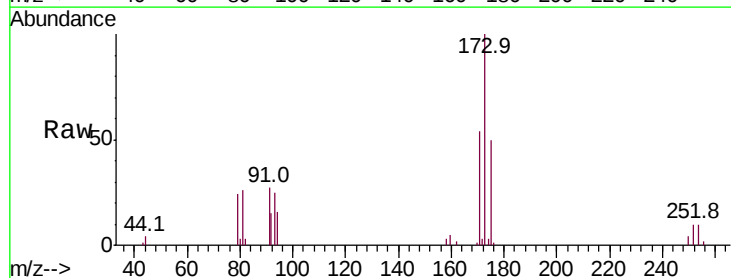
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00506

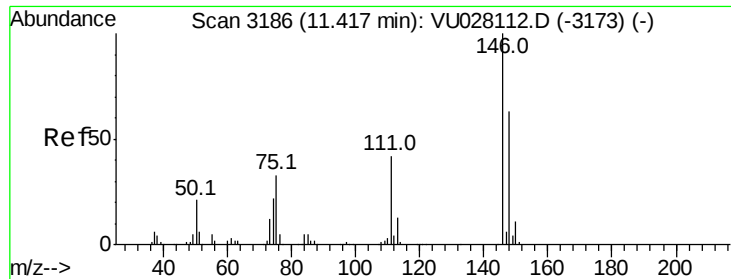
Tot Ion: 75 Resp: 43433
 Ion Ratio Lower Upper
 75 100
 77 32.6 25.4 38.0



#61
 Bromoform
 Concen: 4.799 ug/L
 RT: 9.96 min Scan# 2732
 Delta R.T. -0.00 min
 Lab File: VU028116.D
 Acq: 14 Nov 2018 12:35

Tgt Ion:173 Resp: 25545
 Ion Ratio Lower Upper
 173 100
 175 47.7 38.2 57.2
 254 10.0 7.1 10.7





#62

1,3-Dichlorobenzene

Concen: 4.983 ug/L

RT: 11.42 min Scan# 3186

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD00506

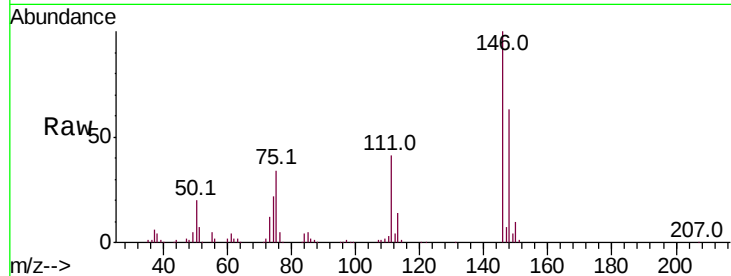
Tot Ion:146 Resp: 124022

Ion Ratio Lower Upper

146 100

111 40.8 29.3 54.3

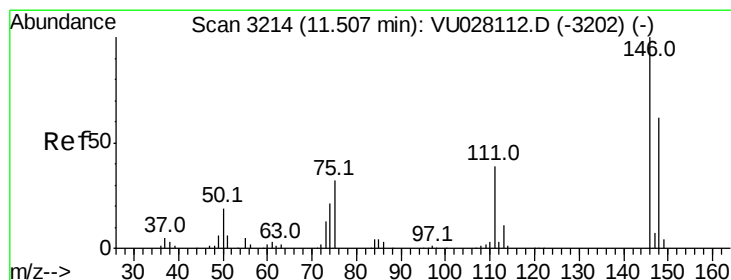
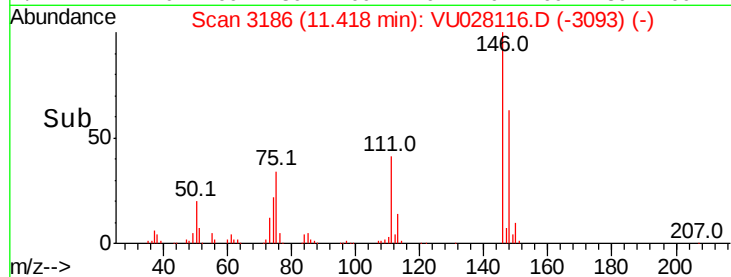
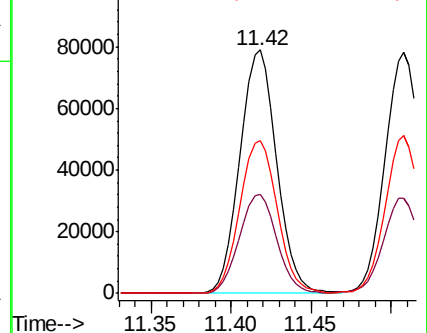
148 62.7 44.1 81.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.911 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

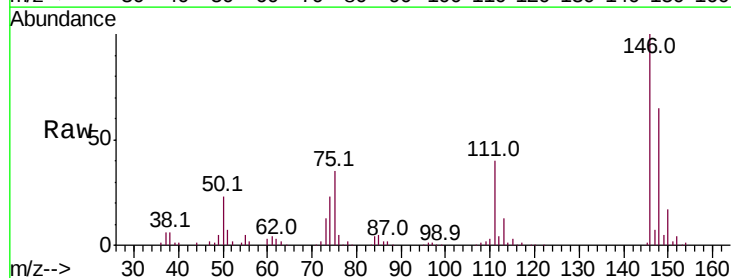
Tgt Ion:146 Resp: 123723

Ion Ratio Lower Upper

146 100

111 39.5 27.4 51.0

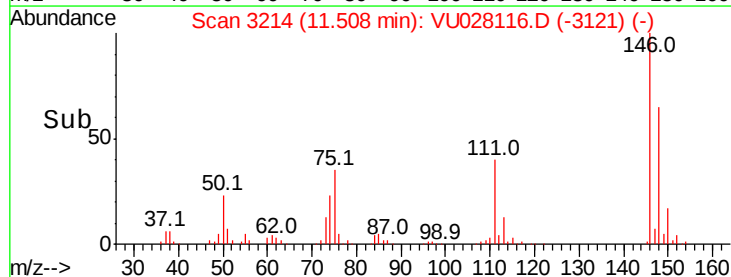
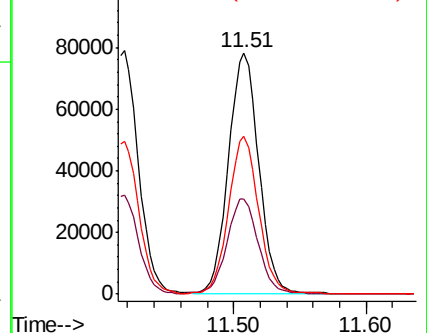
148 65.1 43.8 81.3

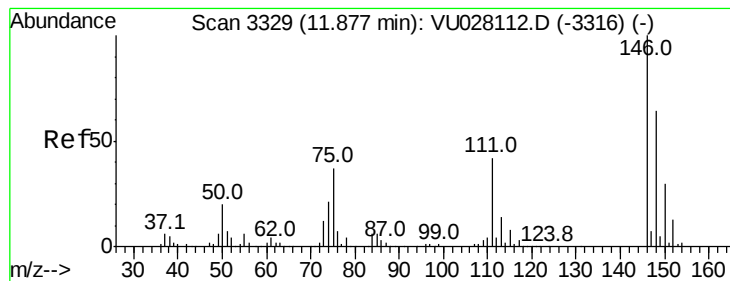


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.862 ug/L

RT: 11.88 min Scan# 3329

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD00506

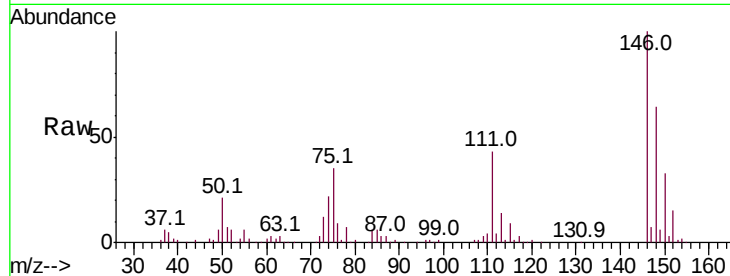
Tot Ion:146 Resp: 115729

Ion Ratio Lower Upper

146 100

111 43.0 33.9 50.9

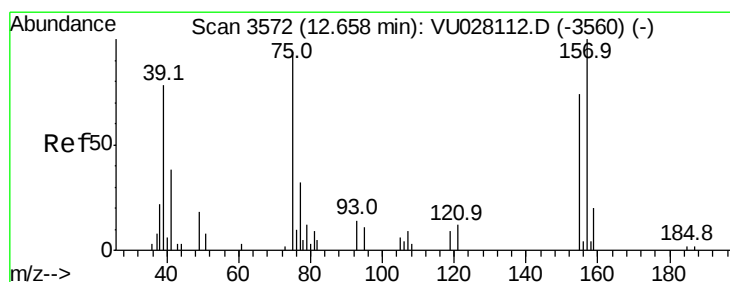
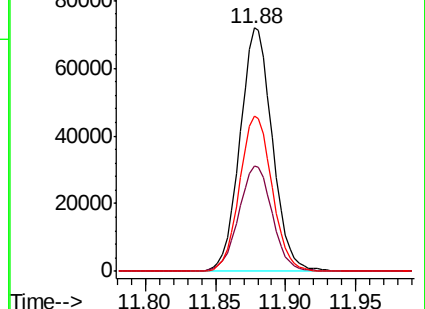
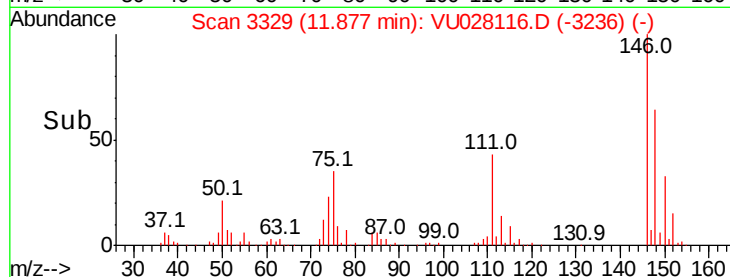
148 64.0 50.9 76.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.850 ug/L

RT: 12.66 min Scan# 3571

Delta R.T. -0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

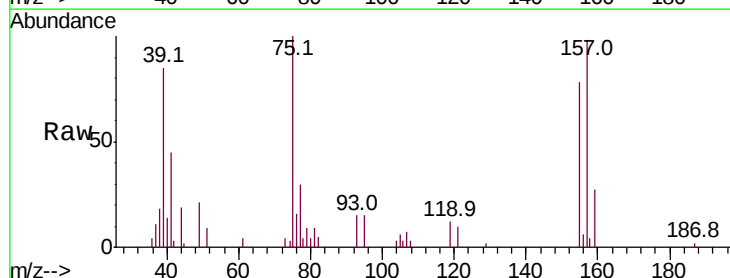
Tgt Ion: 75 Resp: 8376

Ion Ratio Lower Upper

75 100

155 77.7 62.8 94.2

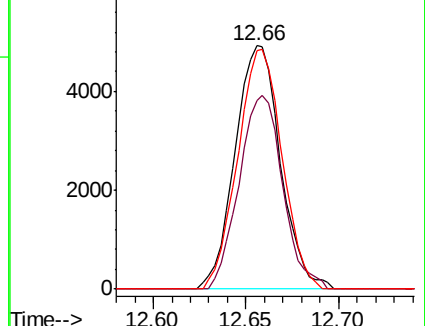
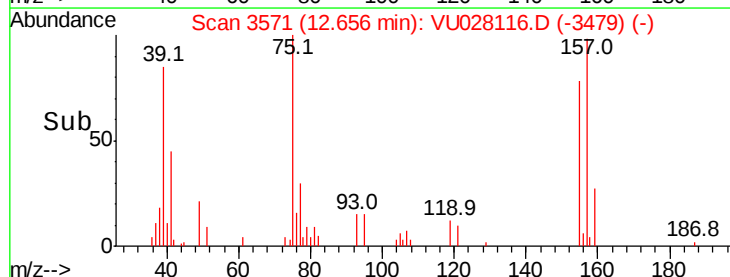
157 98.2 85.3 127.9

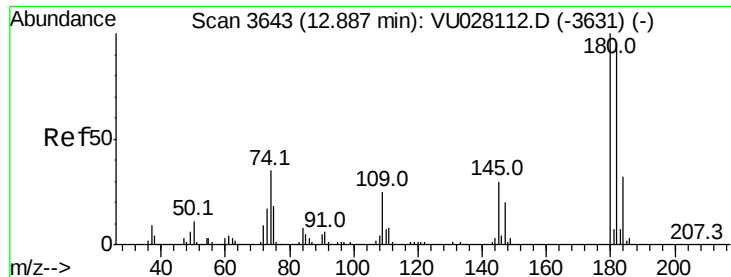


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

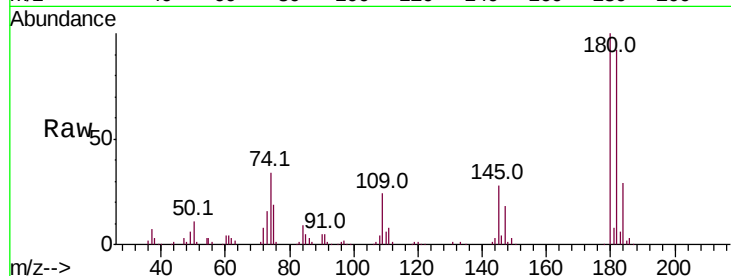




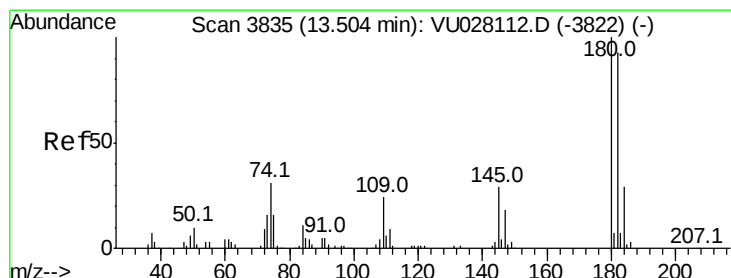
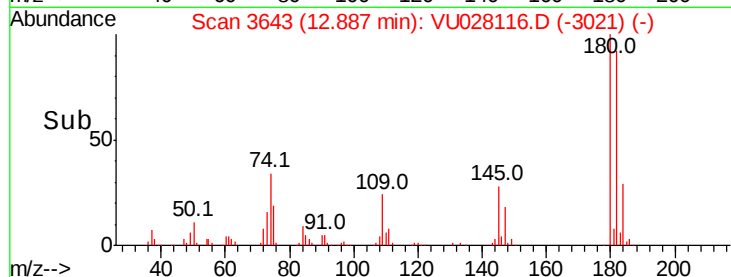
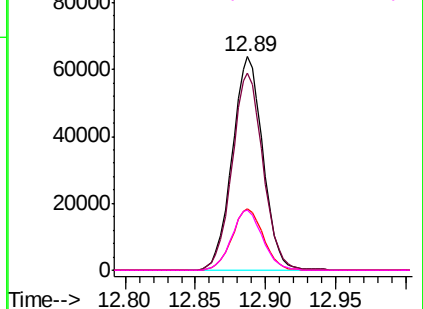
#67
 1,3,5-Trichlorobenzene
 Concen: 5.091 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU028116.D
 Acq: 14 Nov 2018 12:35

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00506

Tot Ion:180 Resp: 97203
 Ion Ratio Lower Upper
 180 100
 182 92.8 76.6 114.8
 184 29.3 24.7 37.1
 145 28.8 24.0 36.0

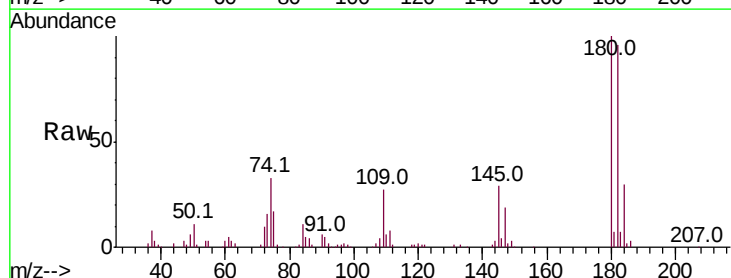


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

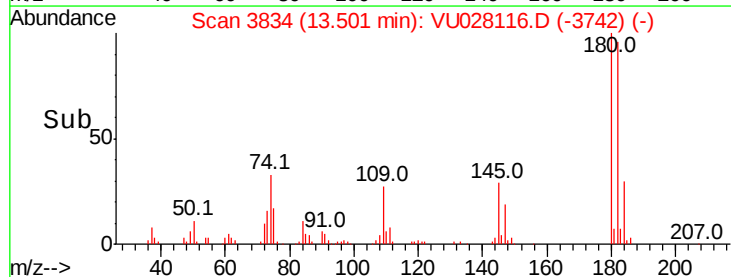
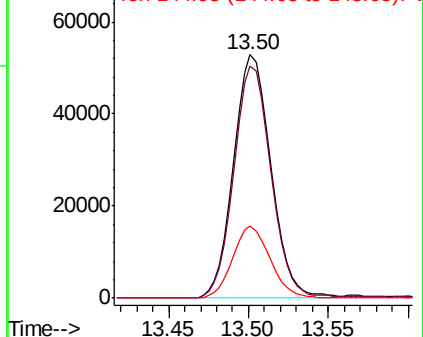


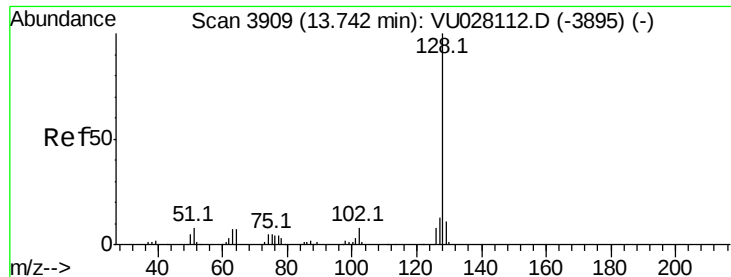
#68
 1,2,4-trichlorobenzene
 Concen: 5.052 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. -0.00 min
 Lab File: VU028116.D
 Acq: 14 Nov 2018 12:35

Tgt Ion:180 Resp: 84082
 Ion Ratio Lower Upper
 180 100
 182 94.9 75.1 112.7
 145 29.5 23.4 35.0



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





#69

Naphthalene

Concen: 5.081 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD00506

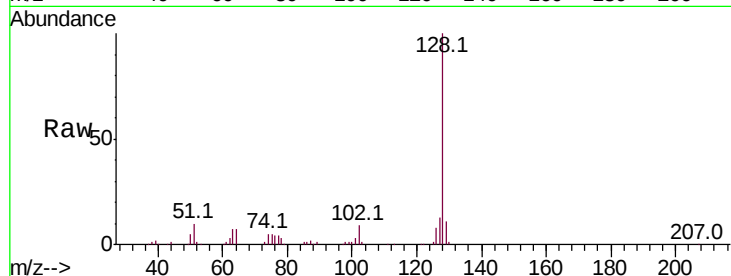
Tot Ion:128 Resp: 157573

Ion Ratio Lower Upper

128 100

129 10.6 8.5 12.7

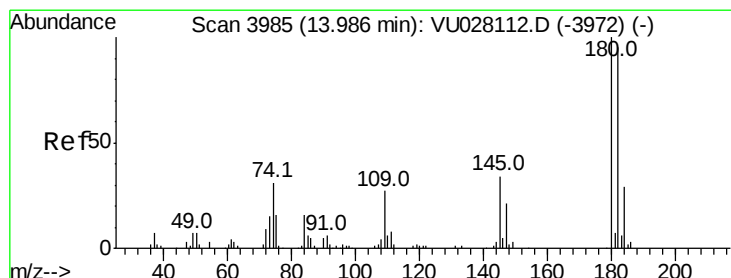
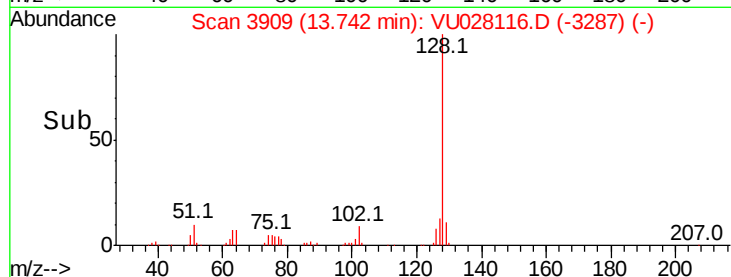
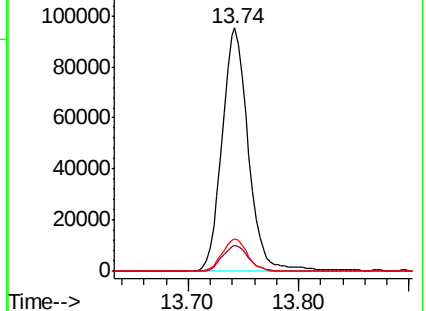
127 13.0 10.2 15.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.114 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU028116.D

Acq: 14 Nov 2018 12:35

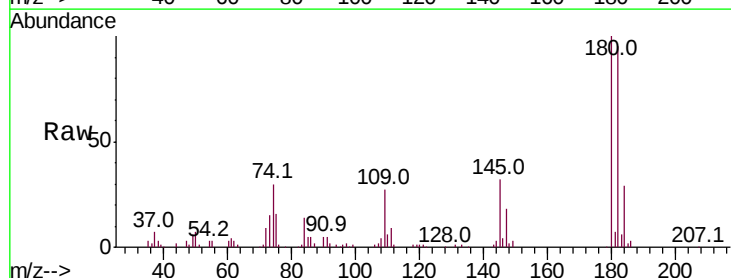
Tgt Ion:180 Resp: 78405

Ion Ratio Lower Upper

180 100

182 93.8 77.6 116.4

145 31.5 26.2 39.4



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

