

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052819\
 Data File : VU032321.D
 Acq On : 28 May 2019 12:12
 Operator : JC/SP
 Sample : VSTD10056
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10056

Quant Time: May 29 04:49:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052819WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed May 29 04:44:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	841248	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	846525	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	443038	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	605452	127.40	ug/L	0.00
7) Chloroethane-d5	1.66	69	481687	110.30	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	1060948	115.96	ug/L	0.00
21) 2-Butanone-d5	4.17	46	863107	207.63	ug/L	0.00
24) Chloroform-d	4.64	84	1060739	95.28	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.30	65	627585	90.87	ug/L	0.00
32) Benzene-d6	5.33	84	2216419	102.50	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	681700	99.69	ug/L	0.00
41) Toluene-d8	7.56	98	2095537	105.66	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	337560	107.01	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	659981	228.97	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	1056621	93.98	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	873246	94.11	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	632015	115.143	ug/L 99
3) Chloromethane	1.32	50	646372	97.773	ug/L 99
5) Vinyl chloride	1.40	62	683261	109.383	ug/L 98
6) Bromomethane	1.60	94	435746	90.950	ug/L 98
8) Chloroethane	1.68	64	395550	95.356	ug/L 99
9) Trichlorofluoromethane	1.87	101	866021	110.256	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	518041	113.029	ug/L 99
12) 1,1-Dichloroethene	2.28	96	522787	104.282	ug/L 96
13) Acetone	2.32	43	713079	202.996	ug/L 99
14) Carbon disulfide	2.47	76	1569975	104.247	ug/L 99
15) Methyl Acetate	2.61	43	605270	92.816	ug/L 99
16) Methylene chloride	2.69	84	610400	88.743	ug/L 99
17) trans-1,2-Dichloroethene	2.97	96	549564	95.867	ug/L 95
18) Methyl tert-butyl Ether	2.99	73	1701602	88.725	ug/L 100
19) 1,1-Dichloroethane	3.44	63	995393	96.924	ug/L 99
20) cis-1,2-Dichloroethene	4.22	96	626253	93.442	ug/L 98
22) 2-Butanone	4.25	43	973874	211.118	ug/L 99
23) Bromochloromethane	4.54	128	317406	86.413	ug/L 97
25) Chloroform	4.67	83	1021102	90.230	ug/L 100
27) 1,2-Dichloroethane	5.40	62	766007	87.272	ug/L 99
29) Cyclohexane	4.99	56	911858	129.168	ug/L 99
30) 1,1,1-Trichloroethane	4.91	97	858794	101.436	ug/L 100
31) Carbon tetrachloride	5.13	117	742307	105.992	ug/L 100
33) Benzene	5.38	78	2344471	97.430	ug/L 100
34) Trichloroethene	6.18	95	600535	99.700	ug/L 96
35) Methylcyclohexane	6.41	83	962421	125.925	ug/L 100
37) 1,2-Dichloropropane	6.43	63	605070	96.801	ug/L 100
38) Bromodichloromethane	6.75	83	775699	90.310	ug/L 99
39) cis-1,3-Dichloropropene	7.26	75	961700	104.582	ug/L 99
40) 4-Methyl-2-pentanone	7.46	43	1701605	198.458	ug/L 99

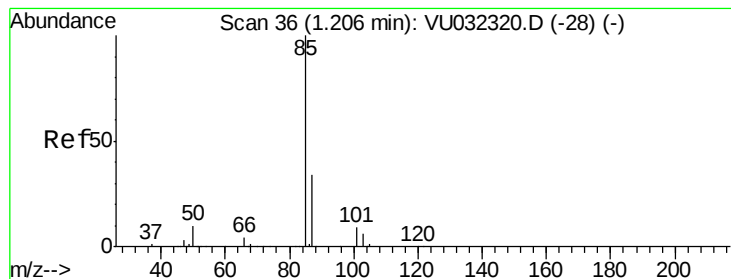
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052819\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	2626904	103.140	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	854106	105.455	ug/L	97
45) 1,1,2-Trichloroethane	8.06	97	600580	88.646	ug/L	99
46) Tetrachloroethene	8.22	164	489366	106.481	ug/L	96
48) 2-Hexanone	8.36	43	1425712	211.679	ug/L	100
49) Dibromochloromethane	8.47	129	659297	91.520	ug/L	99
50) 1,2-Dibromoethane	8.58	107	636616	87.533	ug/L	99
51) Chlorobenzene	9.11	112	1650941	97.041	ug/L	98
52) Ethylbenzene	9.24	91	2871984	109.266	ug/L	99
53) m,p-Xylene	9.37	106	1124629	110.824	ug/L	98
54) o-xylene	9.77	106	1116811	106.614	ug/L	99
55) Styrene	9.79	104	1948652	109.189	ug/L	99
56) Isopropylbenzene	10.16	105	2887758	115.957	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	1044729	90.551	ug/L	97
59) 1,2,3-Trichloropropane	10.49	75	815922	89.805	ug/L	100
61) Bromoform	9.95	173	530174	82.340	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	1349092	96.010	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	1375413	93.987	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	1384465	91.313	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	237214	87.314	ug/L	97
67) 1,3,5-Trichlorobenzene	12.88	180	1045114	104.201	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	898084	113.791	ug/L	97
69) Naphthalene	13.74	128	2918727	108.163	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	947352	105.441	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 115.143 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

Instrument :

MSVOA_U

ClientSampleId :

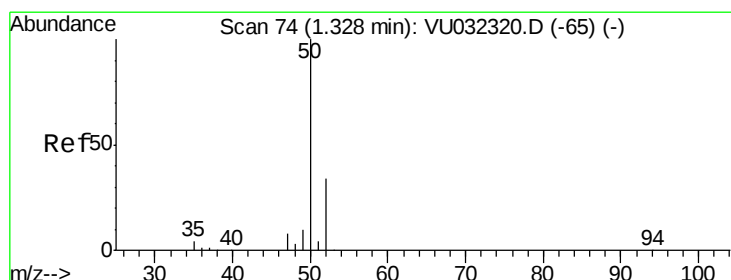
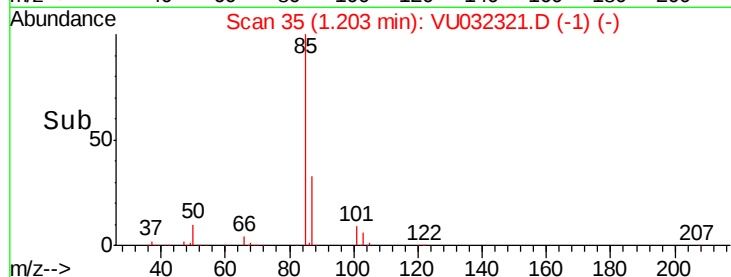
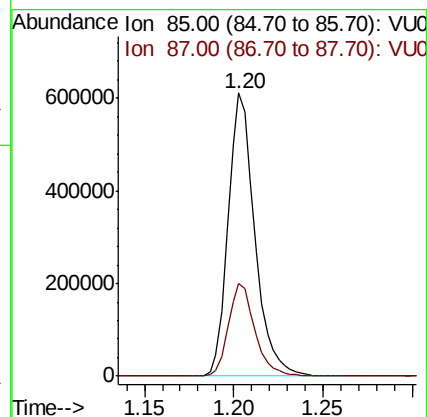
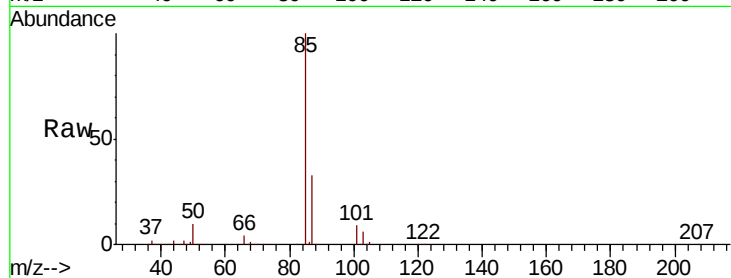
VSTD10056

Tgt Ion: 85 Resp: 632015

Ion Ratio Lower Upper

85 100

87 32.6 26.7 40.1



#3

Chloromethane

Concen: 97.773 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU032321.D

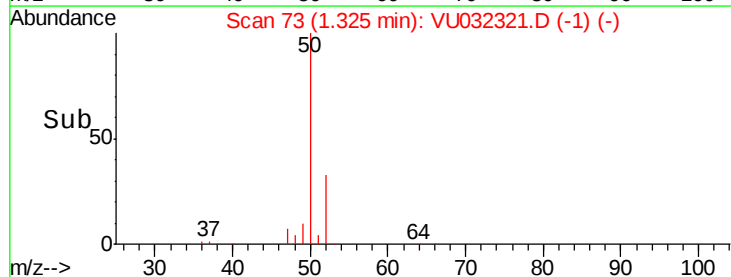
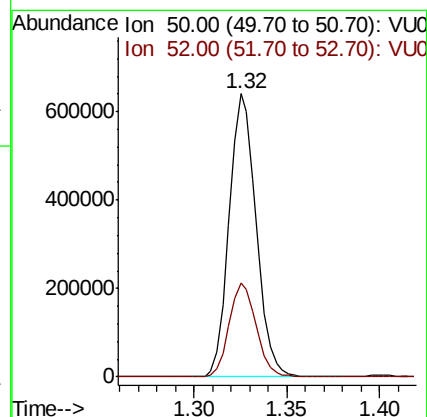
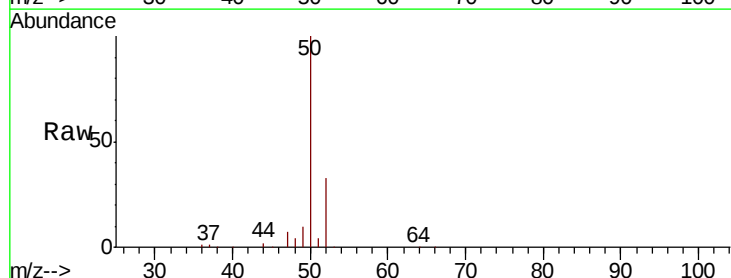
Acq: 28 May 2019 12:12

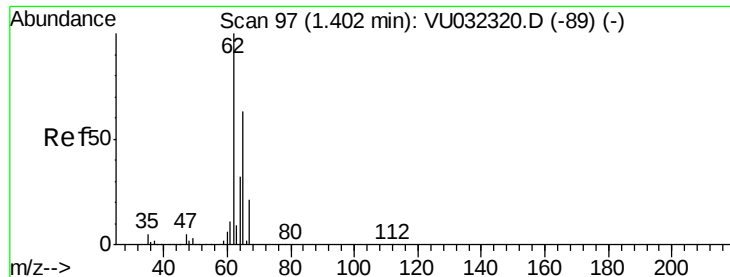
Tgt Ion: 50 Resp: 646372

Ion Ratio Lower Upper

50 100

52 33.2 23.6 43.8





#5

Vinyl chloride

Concen: 109.383 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

Instrument :

MSVOA_U

ClientSampleId :

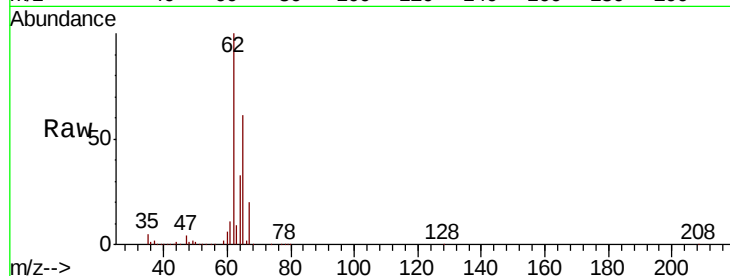
VSTD10056

Tgt Ion: 62 Resp: 683261

Ion Ratio Lower Upper

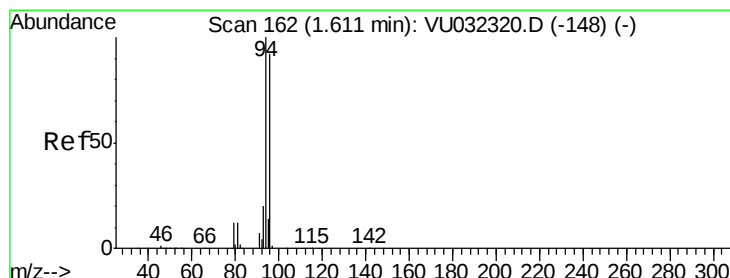
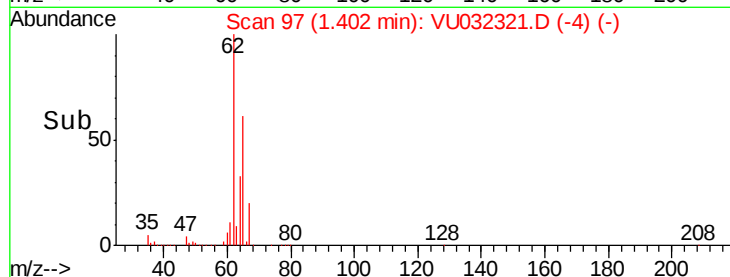
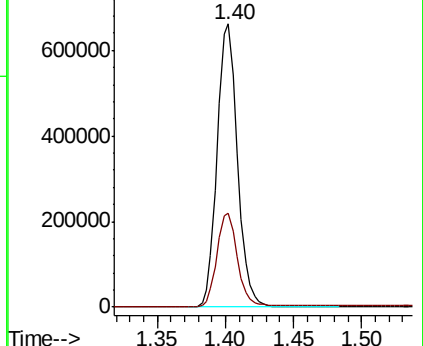
62 100

64 33.2 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VU032321.D (-89) (-)

Ion 64.00 (63.70 to 64.70): VU032321.D (-89) (-)



#6

Bromomethane

Concen: 90.950 ug/L

RT: 1.60 min Scan# 160

Delta R.T. -0.01 min

Lab File: VU032321.D

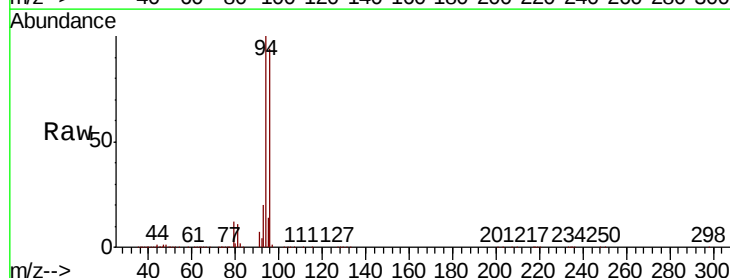
Acq: 28 May 2019 12:12

Tgt Ion: 94 Resp: 435746

Ion Ratio Lower Upper

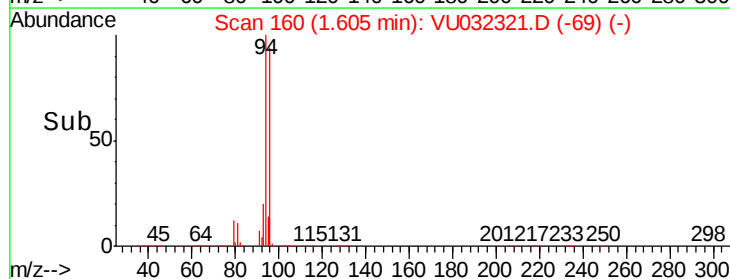
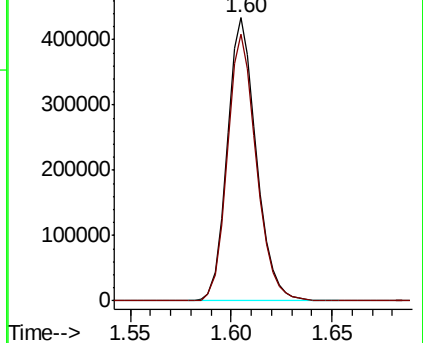
94 100

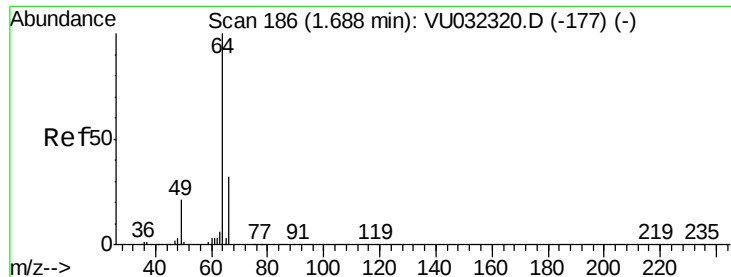
96 94.2 64.5 119.9



Abundance Ion 94.00 (93.70 to 94.70): VU032321.D (-148) (-)

Ion 96.00 (95.70 to 96.70): VU032321.D (-148) (-)





#8

Chloroethane

Concen: 95.356 ug/L

RT: 1.68 min Scan# 184

Delta R.T. -0.01 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

Instrument :

MSVOA_U

ClientSampleId :

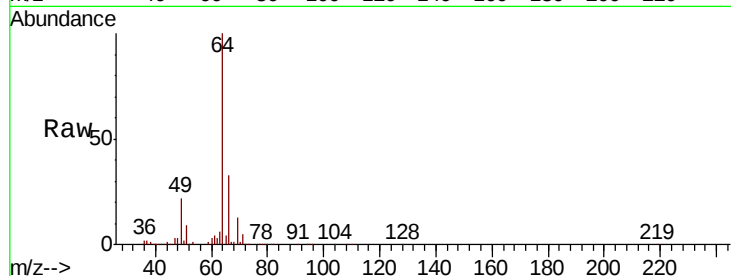
VSTD10056

Tgt Ion: 64 Resp: 395550

Ion Ratio Lower Upper

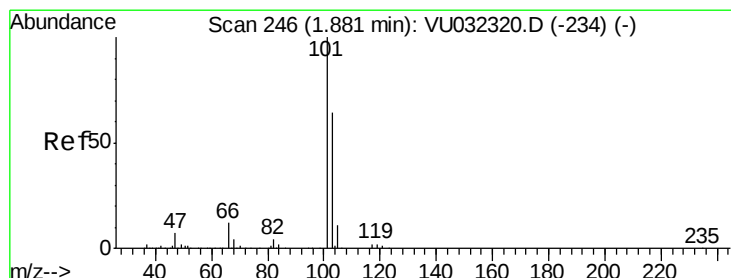
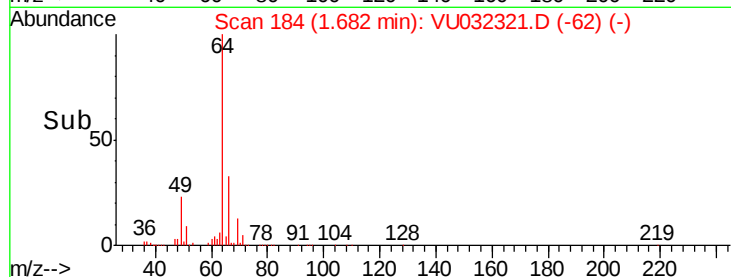
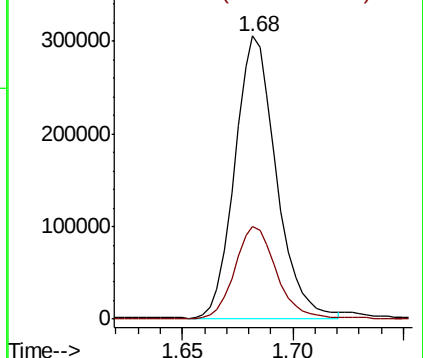
64 100

66 32.8 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VU032321.D (-177) (-)

Ion 66.00 (65.70 to 66.70): VU032321.D (-177) (-)



#9

Trichlorofluoromethane

Concen: 110.256 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.01 min

Lab File: VU032321.D

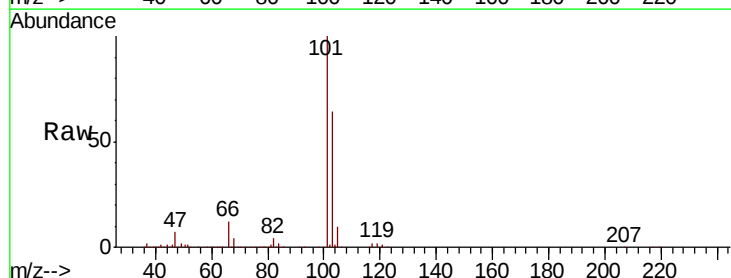
Acq: 28 May 2019 12:12

Tgt Ion: 101 Resp: 866021

Ion Ratio Lower Upper

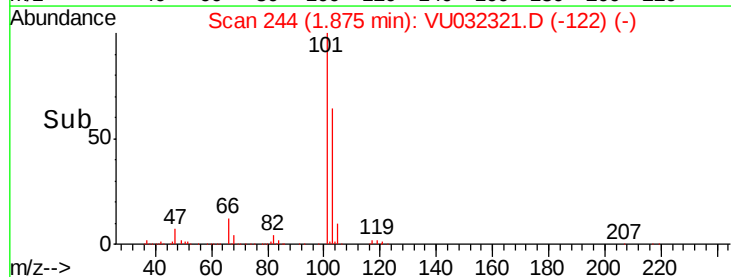
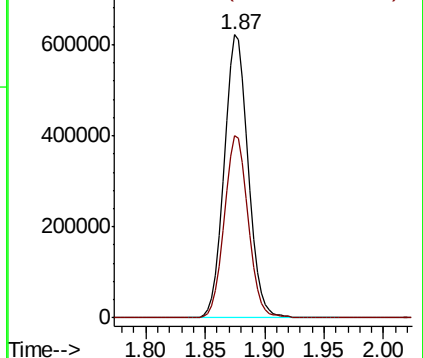
101 100

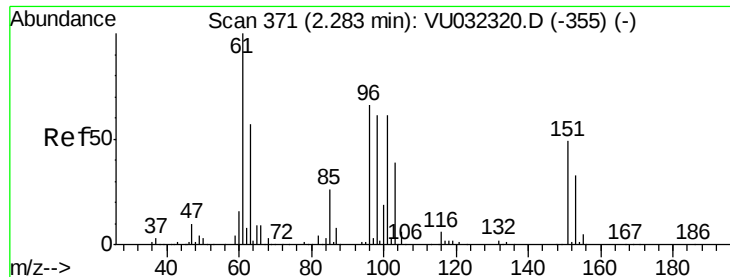
103 64.4 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): VU032321.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU032321.D (-234) (-)





#10

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

Concen: 113.029 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD10056

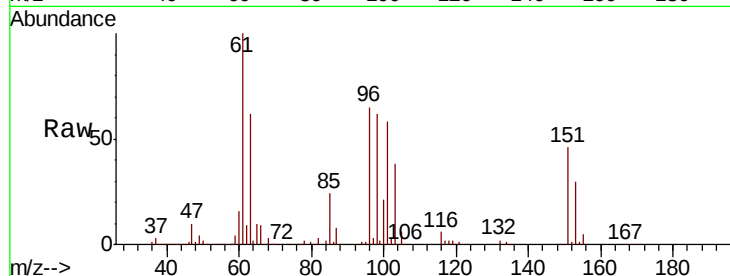
Tgt Ion:101 Resp: 518041

Ion Ratio Lower Upper

101 100

85 41.5 33.4 50.0

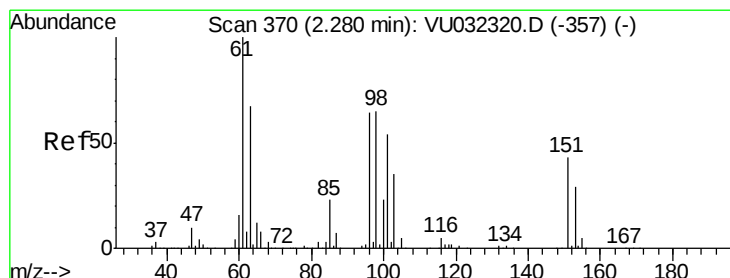
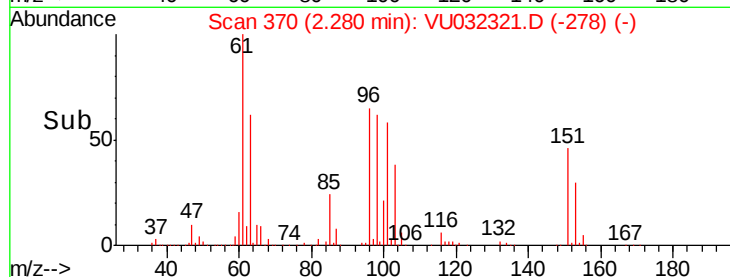
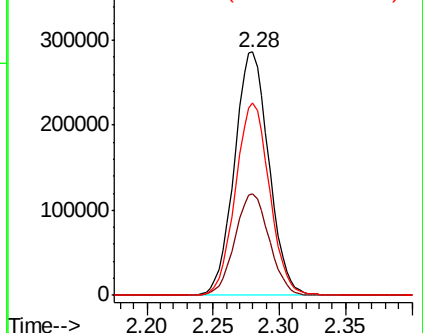
151 78.2 63.7 95.5



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: 104.282 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

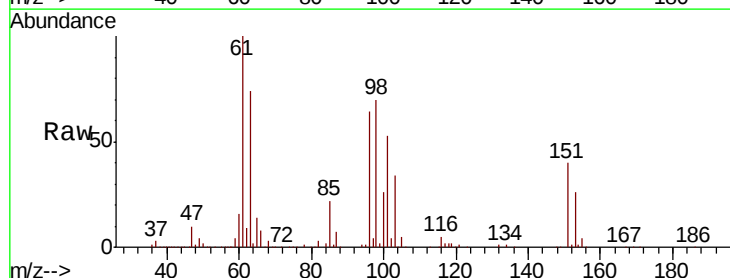
Tgt Ion: 96 Resp: 522787

Ion Ratio Lower Upper

96 100

61 157.0 109.8 203.8

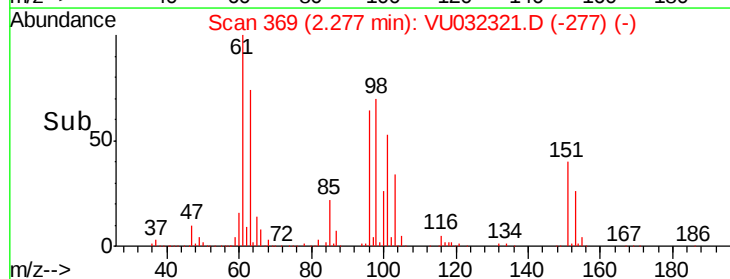
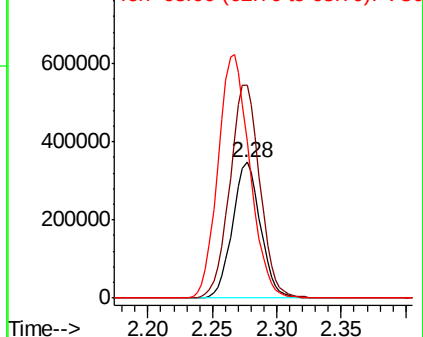
63 115.9 74.4 138.2

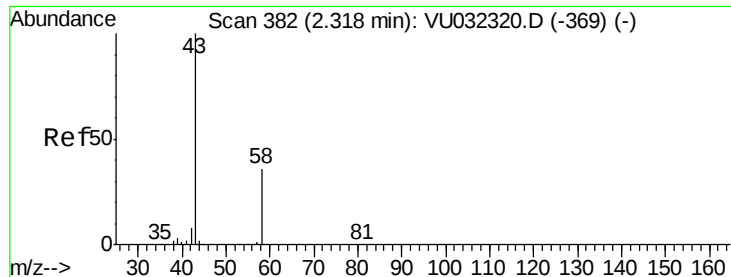


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 202.996 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

Instrument :

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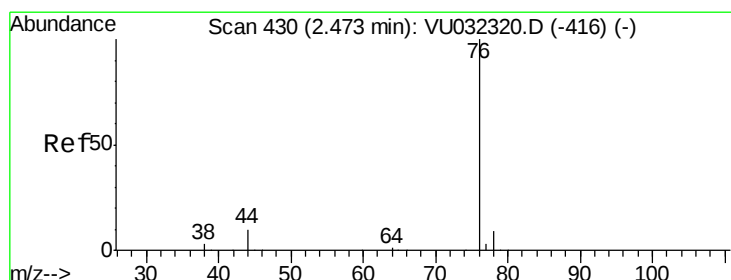
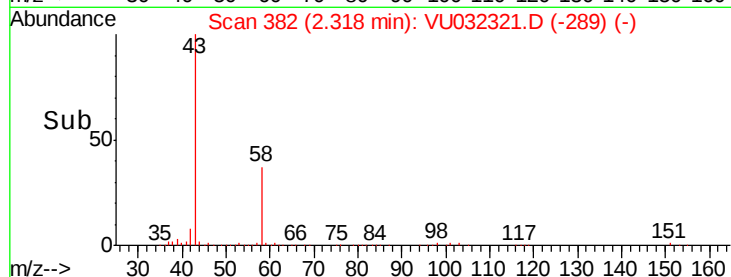
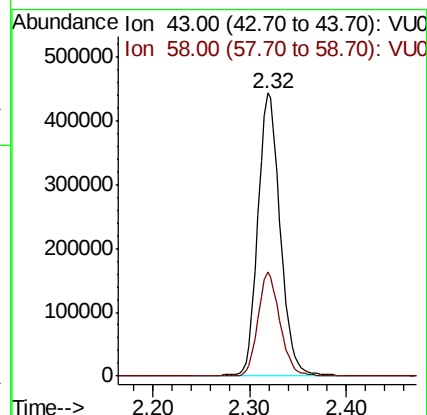
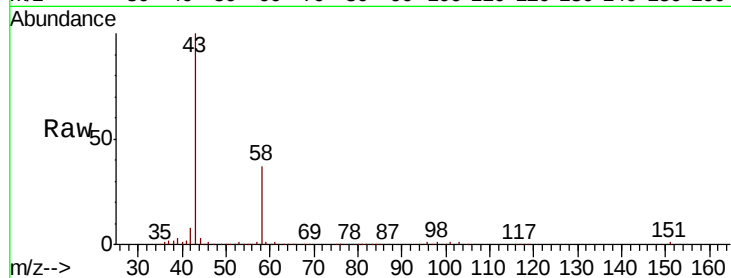
VSTD10056

Tgt Ion: 43 Resp: 713079

Ion Ratio Lower Upper

43 100

58 36.4 0.0 73.6



#14

Carbon disulfide

Concen: 104.247 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VU032321.D

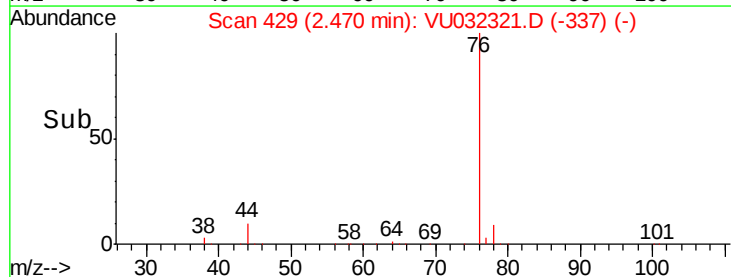
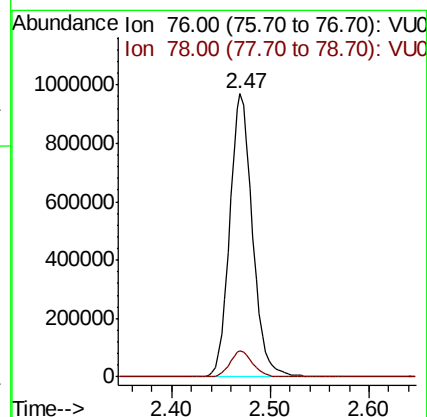
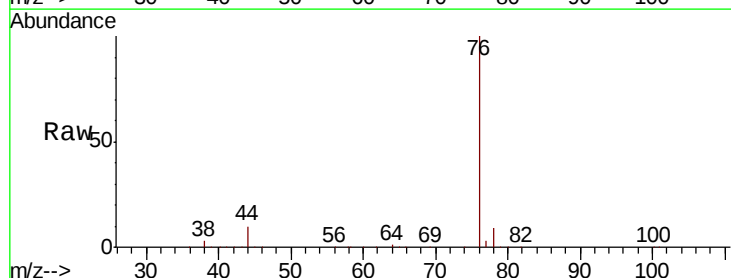
Acq: 28 May 2019 12:12

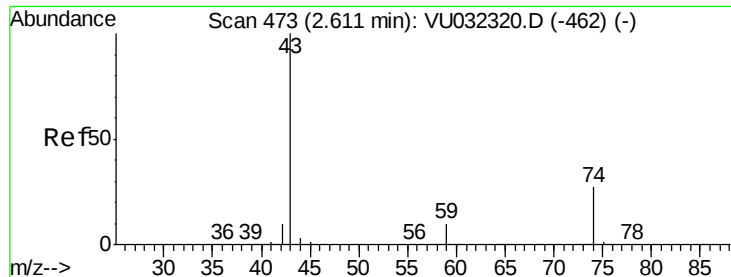
Tgt Ion: 76 Resp: 1569975

Ion Ratio Lower Upper

76 100

78 9.2 7.0 10.6

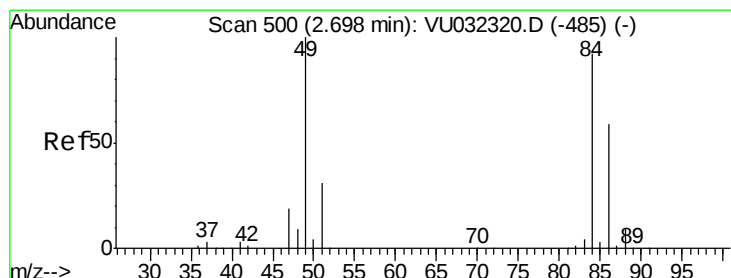
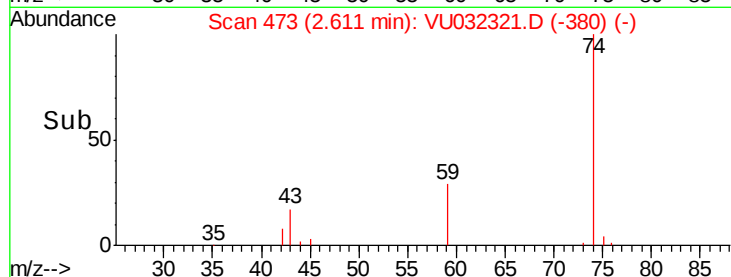
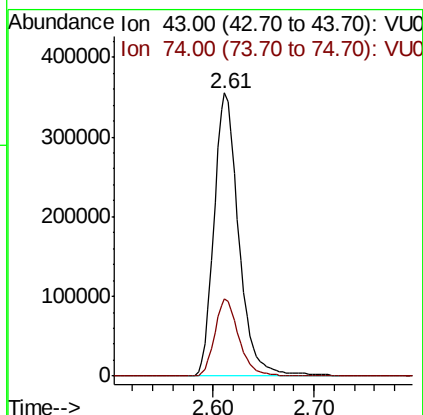
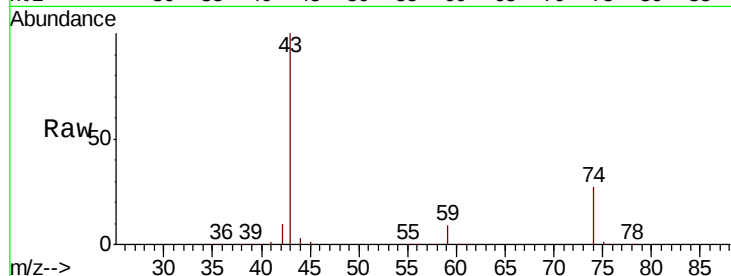




#15
Methyl Acetate
Concen: 92.816 ug/L
RT: 2.61 min Scan# 473
Delta R.T. 0.00 min
Lab File: VU032321.D
Acq: 28 May 2019 12:12

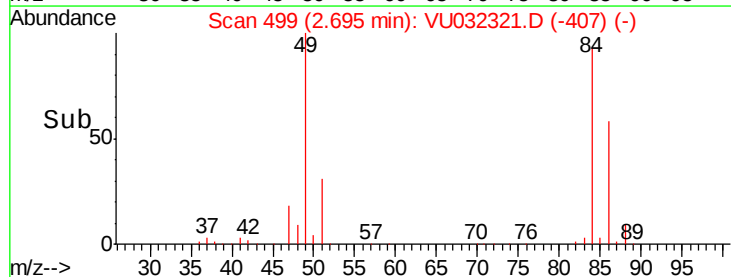
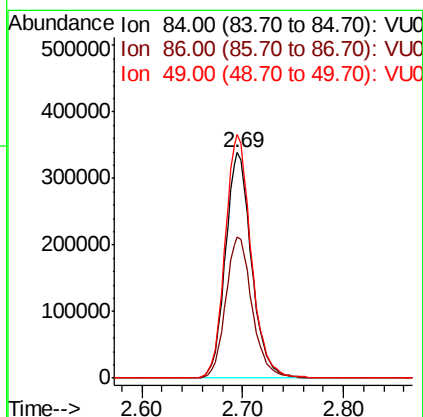
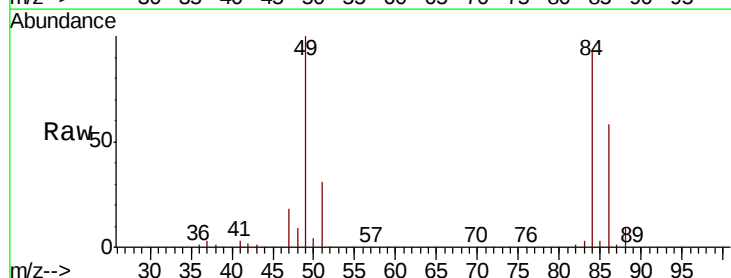
Instrument :
MSVOA_U
ClientSampleId :
VSTD10056

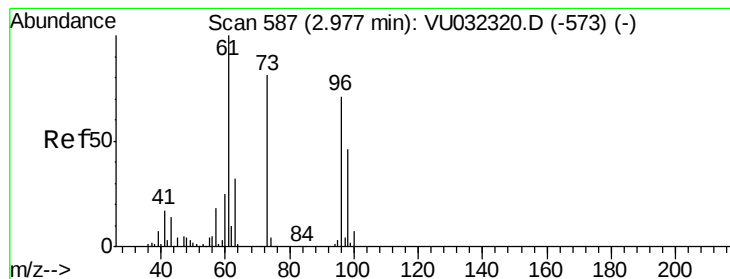
Tgt Ion: 43 Resp: 605270
Ion Ratio Lower Upper
43 100
74 26.7 21.1 31.7



#16
Methylene chloride
Concen: 88.743 ug/L
RT: 2.69 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU032321.D
Acq: 28 May 2019 12:12

Tgt Ion: 84 Resp: 610400
Ion Ratio Lower Upper
84 100
86 62.5 45.0 83.6
49 108.1 75.9 140.9





#17

trans-1,2-Dichloroethene

Concen: 95.867 ug/L

RT: 2.97 min Scan# 586

Delta R.T. -0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD10056

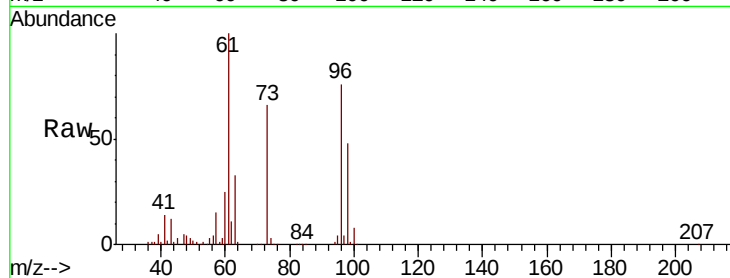
Tgt Ion: 96 Resp: 549564

Ion Ratio Lower Upper

96 100

61 131.8 98.2 182.4

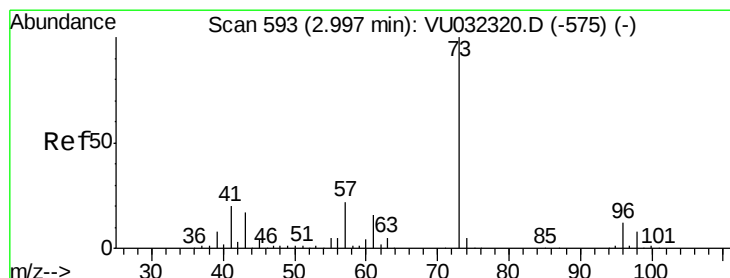
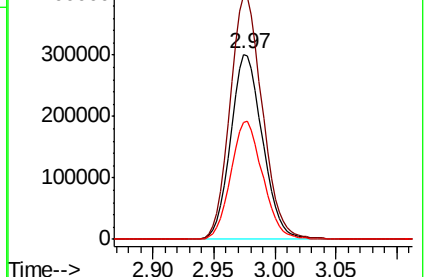
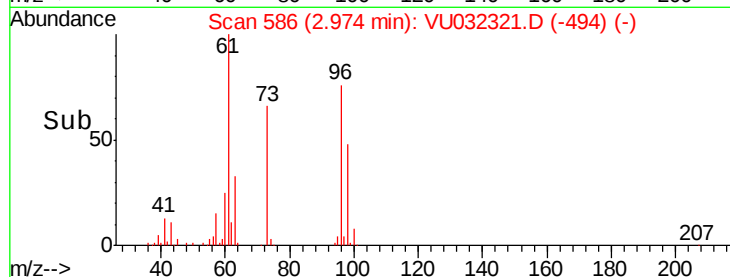
98 63.4 45.5 84.5



Abundance Ion 96.00 (95.70 to 96.70): VU032321.D (-494) (-)

Ion 61.00 (60.70 to 61.70): VU032321.D (-494) (-)

Ion 98.00 (97.70 to 98.70): VU032321.D (-494) (-)



#18

Methyl tert-butyl Ether

Concen: 88.725 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

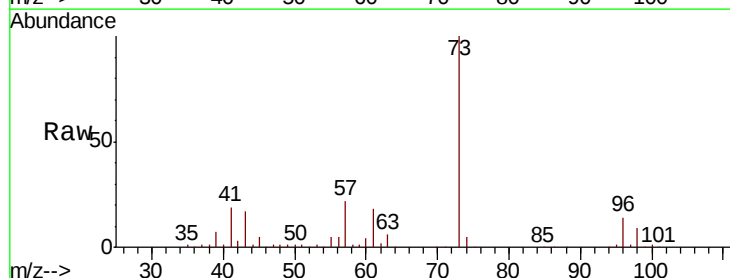
Tgt Ion: 73 Resp: 1701602

Ion Ratio Lower Upper

73 100

43 17.2 13.7 20.5

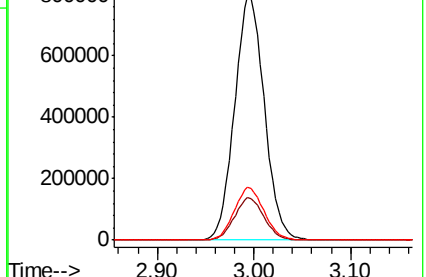
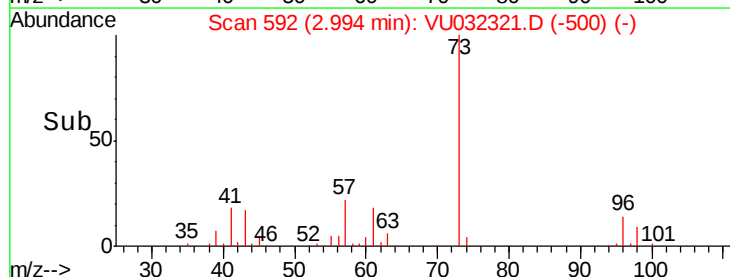
57 21.6 17.2 25.8

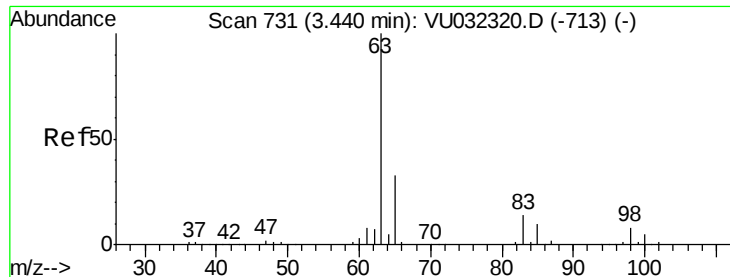


Abundance Ion 73.00 (72.70 to 73.70): VU032321.D (-500) (-)

Ion 43.00 (42.70 to 43.70): VU032321.D (-500) (-)

Ion 57.00 (56.70 to 57.70): VU032321.D (-500) (-)

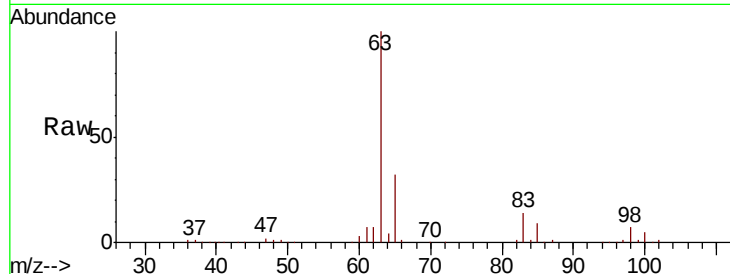




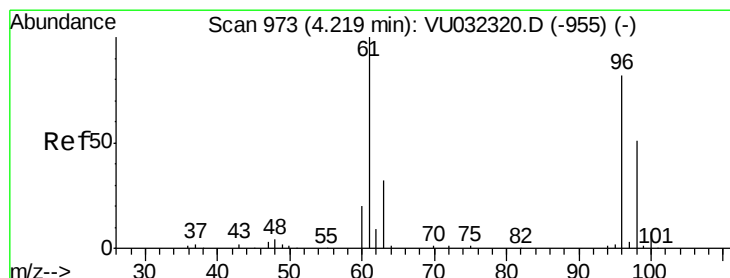
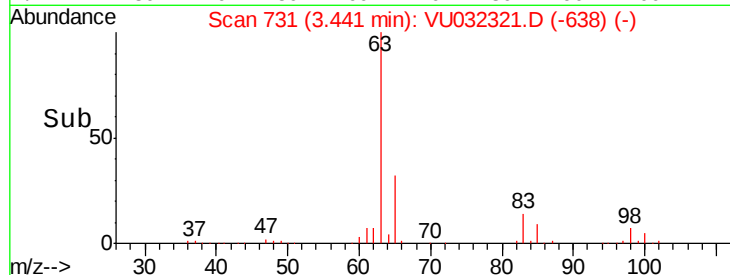
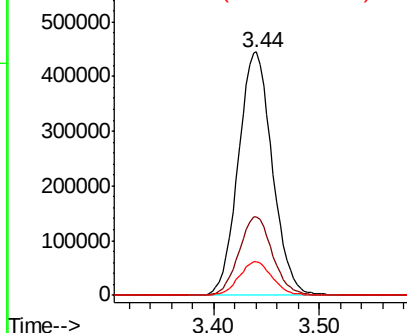
#19
 1,1-Dichloroethane
 Concen: 96.924 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU032321.D
 Acq: 28 May 2019 12:12

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10056

Tgt Ion: 63 Resp: 995393
 Ion Ratio Lower Upper
 63 100
 65 32.4 23.2 43.0
 83 13.8 9.9 18.5

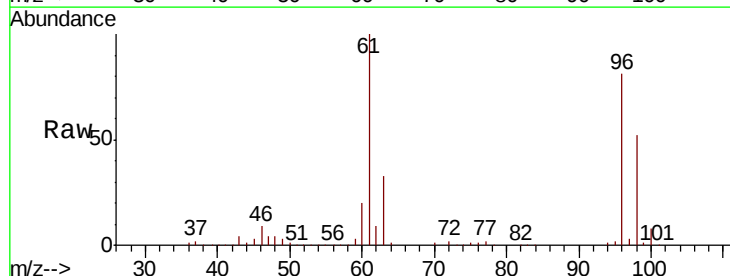


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

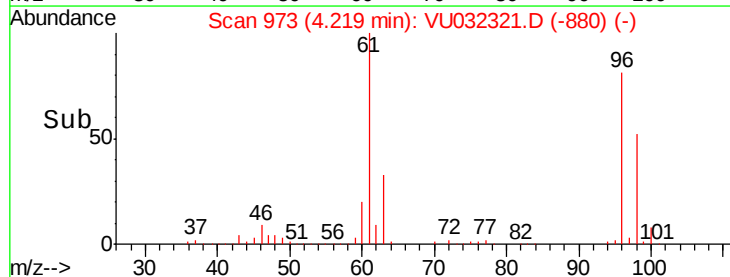
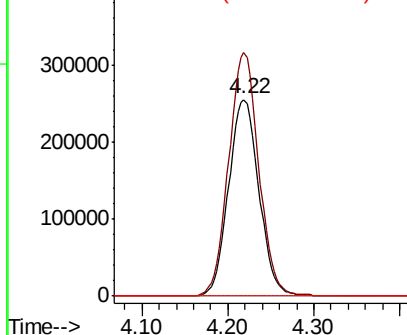


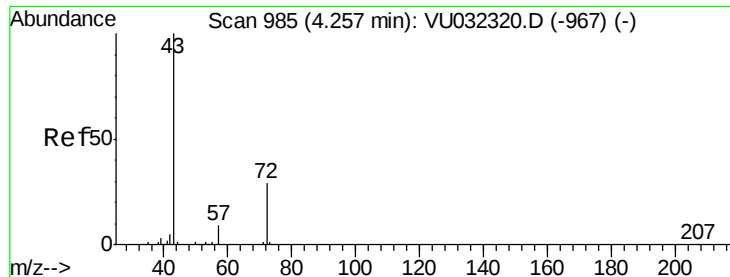
#20
 cis-1,2-Dichloroethene
 Concen: 93.442 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU032321.D
 Acq: 28 May 2019 12:12

Tgt Ion: 96 Resp: 626253
 Ion Ratio Lower Upper
 96 100
 61 124.0 85.6 159.0
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 211.118 ug/L

RT: 4.25 min Scan# 984

Delta R.T. -0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

Instrument :

MSVOA_U

ClientSampleId :

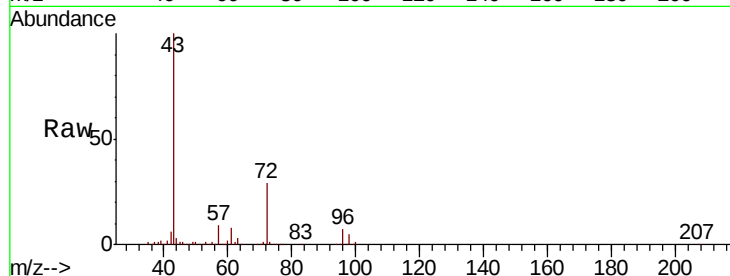
VSTD10056

Tgt Ion: 43 Resp: 973874

Ion Ratio Lower Upper

43 100

72 29.9 15.3 45.8

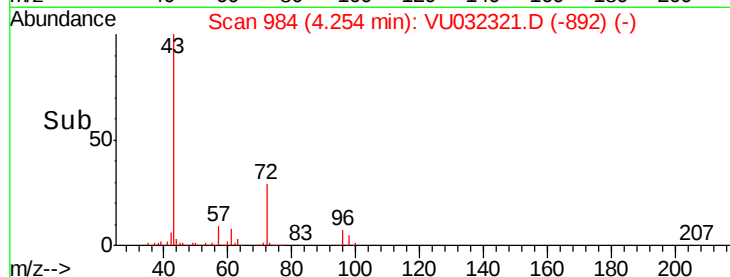


Abundance Ion 43.00 (42.70 to 43.70): VU032320.D (-967) (-)

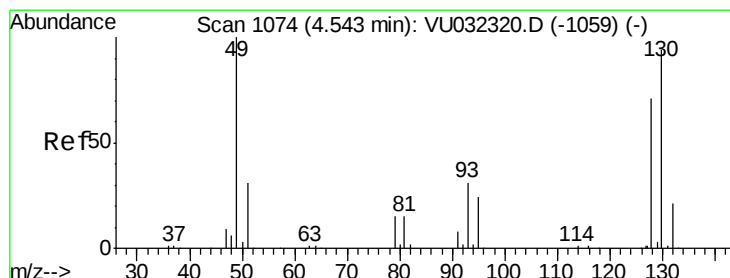
Ion 72.00 (71.70 to 72.70): VU032320.D (-967) (-)

4.25

4.20 4.30 4.40



Time-->



#23

Bromochloromethane

Concen: 86.413 ug/L

RT: 4.54 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

Tgt Ion: 128 Resp: 317406

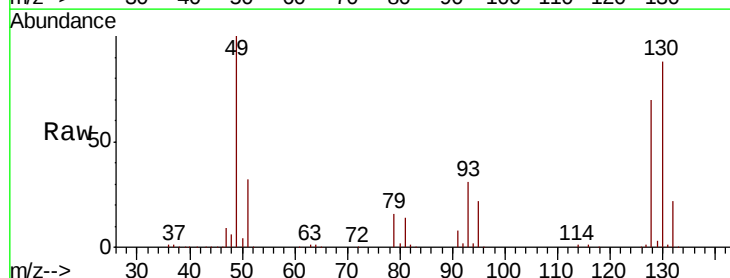
Ion Ratio Lower Upper

128 100

49 143.7 98.8 183.6

130 126.1 92.3 171.5

51 45.6 35.0 52.6



Abundance Ion 128.00 (127.70 to 128.70): VU032320.D (-1059) (-)

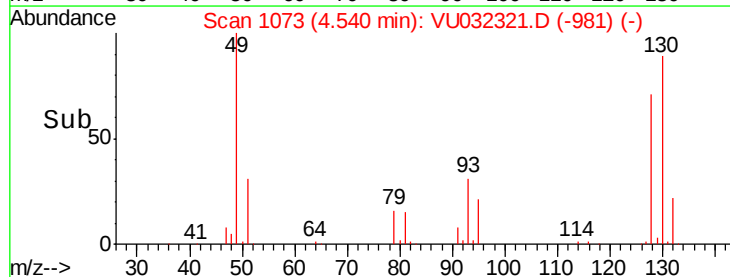
Ion 49.00 (48.70 to 49.70): VU032320.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU032320.D (-1059) (-)

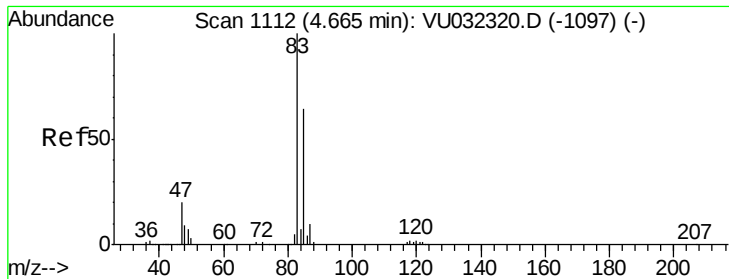
Ion 51.00 (50.70 to 51.70): VU032320.D (-1059) (-)

4.54

4.45 4.50 4.55 4.60 4.65



Time-->



#25

Chloroform

Concen: 90.230 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

Instrument :

MSVOA_U

ClientSampleId :

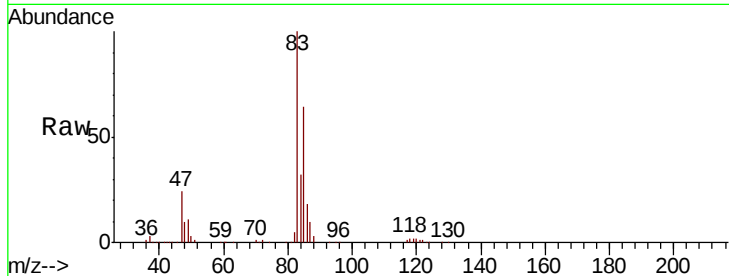
VSTD10056

Tgt Ion: 83 Resp: 1021102

Ion Ratio Lower Upper

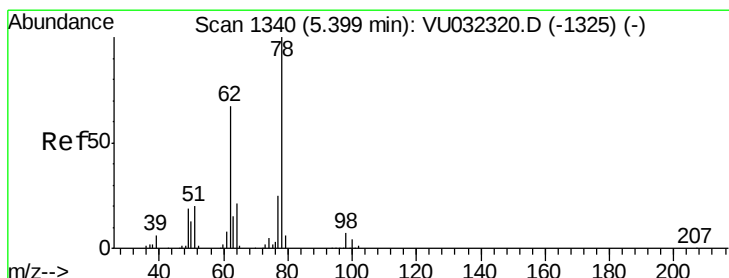
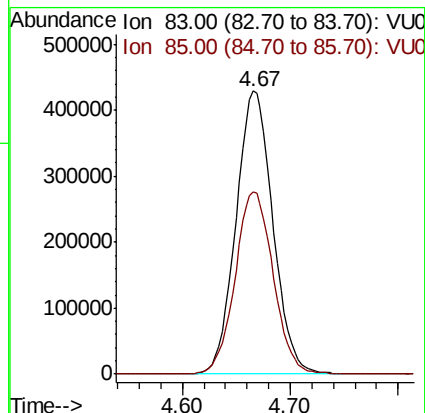
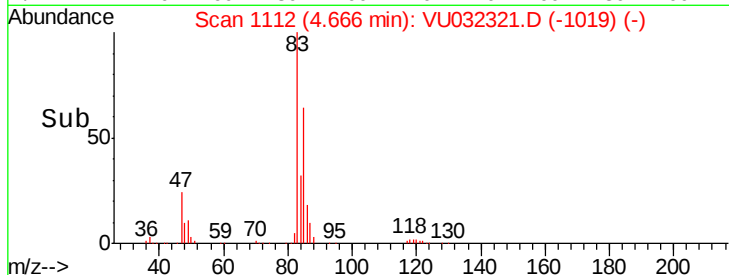
83 100

85 64.5 45.1 83.9



Abundance Ion 83.00 (82.70 to 83.70): VU032321.D (-1019) (-)

Ion 85.00 (84.70 to 85.70): VU032321.D (-1019) (-)



#27

1,2-Dichloroethane

Concen: 87.272 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VU032321.D

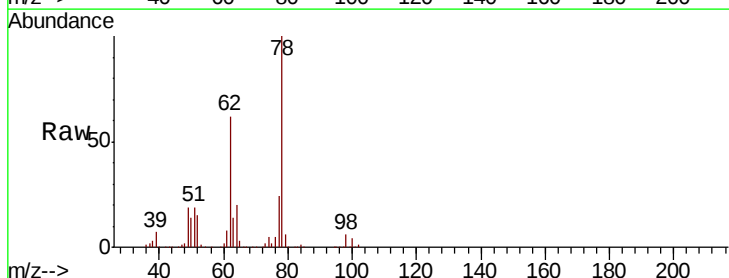
Acq: 28 May 2019 12:12

Tgt Ion: 62 Resp: 766007

Ion Ratio Lower Upper

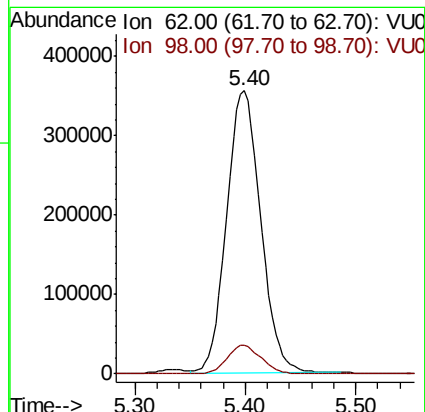
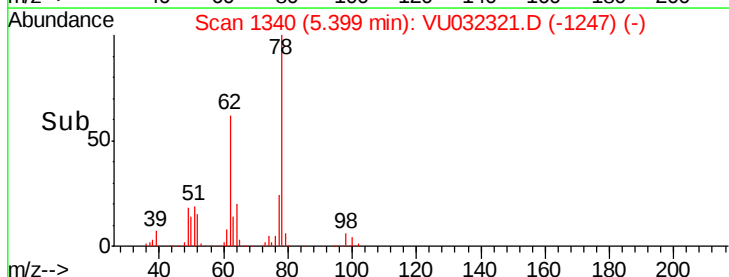
62 100

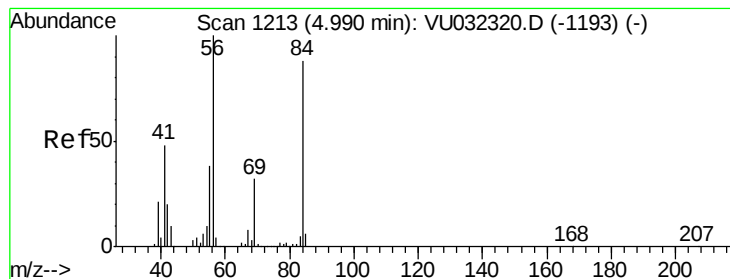
98 10.3 8.4 12.6



Abundance Ion 62.00 (61.70 to 62.70): VU032321.D (-1247) (-)

Ion 98.00 (97.70 to 98.70): VU032321.D (-1247) (-)





#29

Cyclohexane

Concen: 129.168 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. 0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD10056

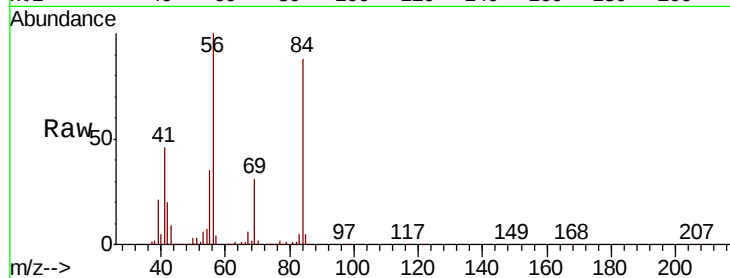
Tgt Ion: 56 Resp: 911858

Ion Ratio Lower Upper

56 100

69 31.3 25.6 38.4

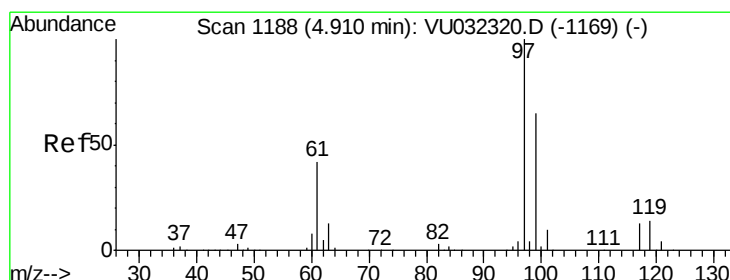
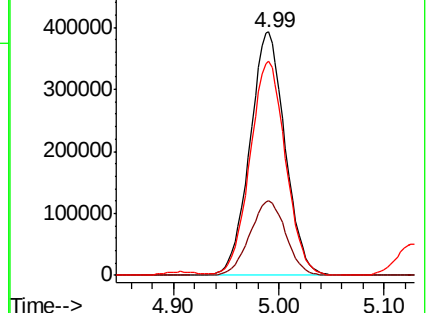
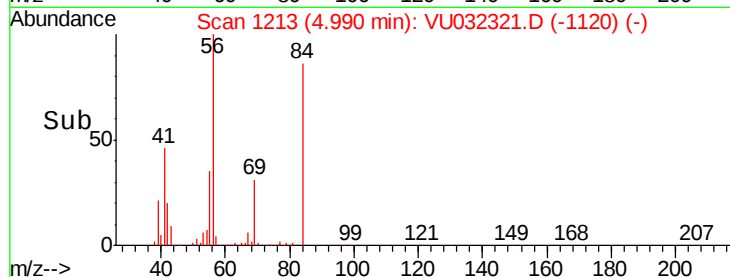
84 89.0 71.4 107.2



Abundance Ion 56.00 (55.70 to 56.70): VU032321.D (-1120) (-)

Ion 69.00 (68.70 to 69.70): VU032321.D (-1120) (-)

Ion 84.00 (83.70 to 84.70): VU032321.D (-1120) (-)



#30

1,1,1-Trichloroethane

Concen: 101.436 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

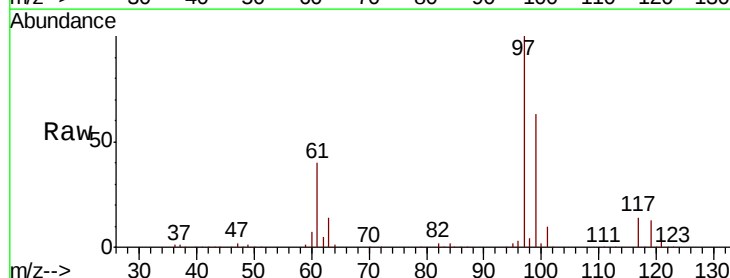
Tgt Ion: 97 Resp: 858794

Ion Ratio Lower Upper

97 100

99 64.2 51.4 77.0

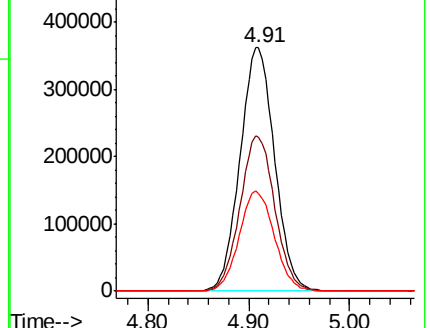
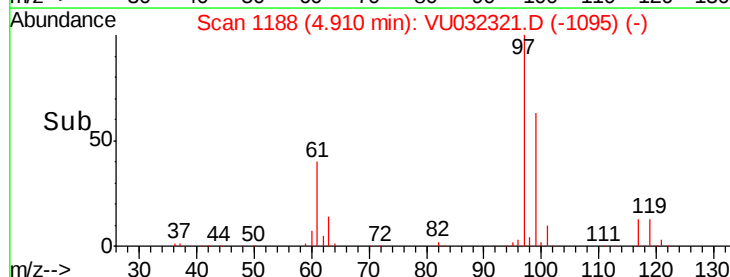
61 41.7 33.7 50.5

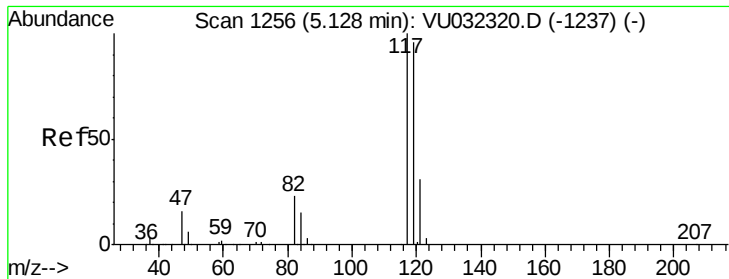


Abundance Ion 97.00 (96.70 to 97.70): VU032321.D (-1095) (-)

Ion 99.00 (98.70 to 99.70): VU032321.D (-1095) (-)

Ion 61.05 (60.75 to 61.75): VU032321.D (-1095) (-)





#31

Carbon tetrachloride

Concen: 105.992 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

Instrument :

MSVOA_U

ClientSampleId :

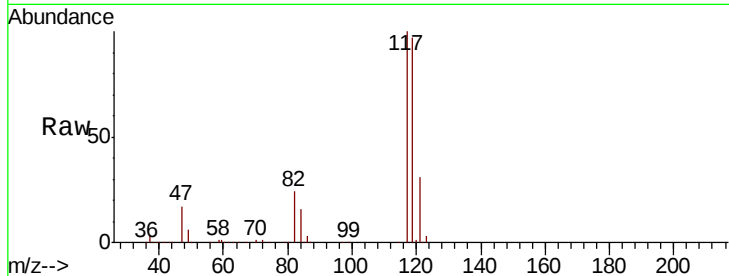
VSTD10056

Tgt Ion:117 Resp: 742307

Ion Ratio Lower Upper

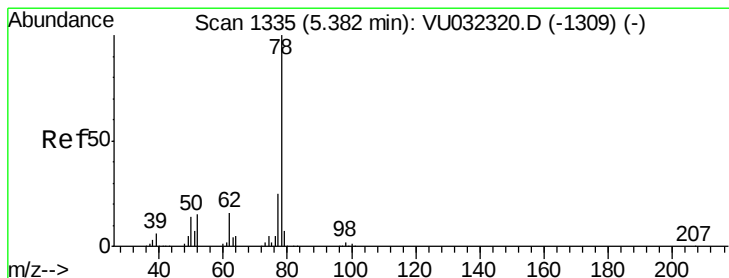
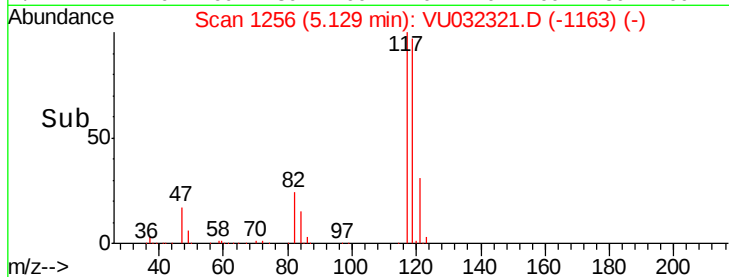
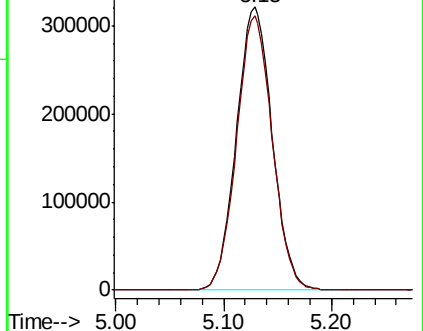
117 100

119 96.4 77.4 116.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 97.430 ug/L

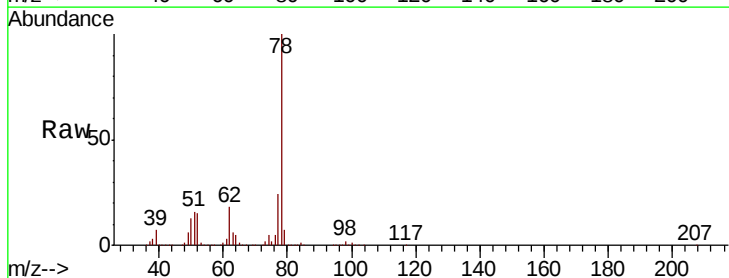
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

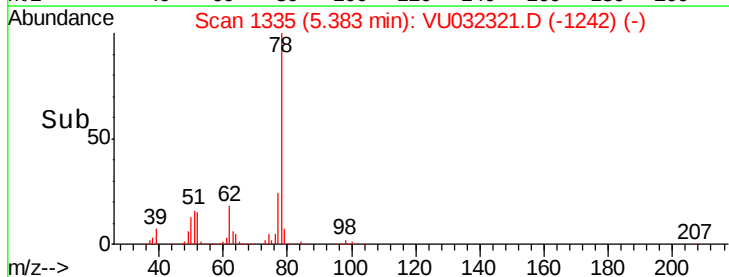
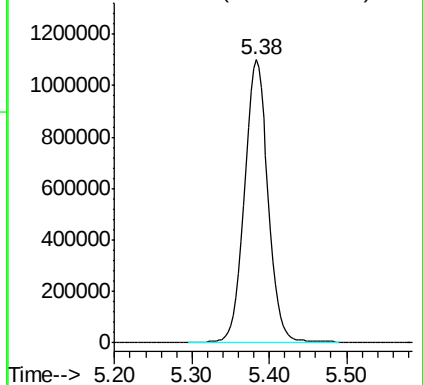
Lab File: VU032321.D

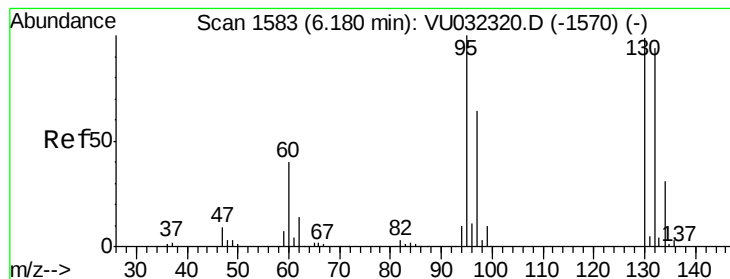
Acq: 28 May 2019 12:12

Tgt Ion: 78 Resp: 2344471



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 99.700 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD10056

Tgt Ion: 95 Resp: 600535

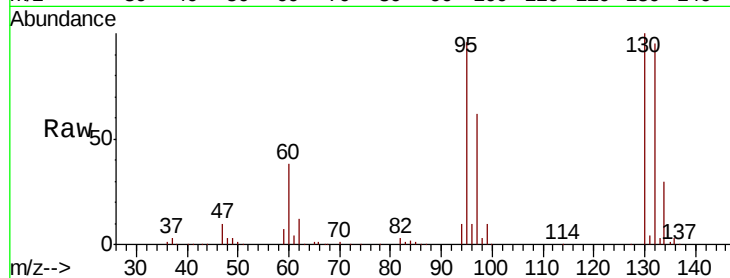
Ion Ratio Lower Upper

95 100

97 64.7 44.8 83.2

132 99.0 66.2 123.0

130 104.0 69.4 128.8

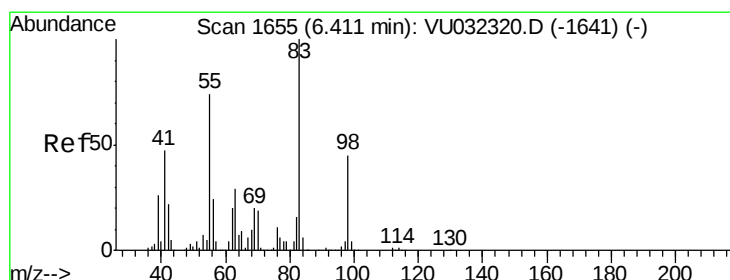
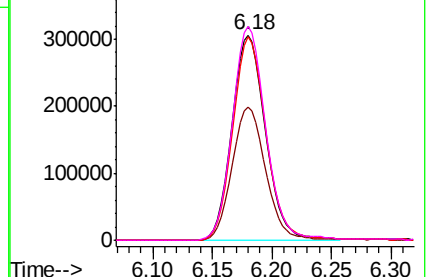
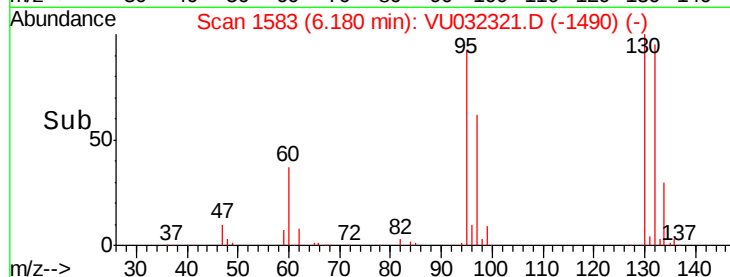


Abundance Ion 95.00 (94.70 to 95.70): VU032321.D (-1490) (-)

Ion 97.00 (96.70 to 97.70): VU032321.D (-1490) (-)

Ion 132.00 (131.70 to 132.70): VU032321.D (-1490) (-)

Ion 130.00 (129.70 to 130.70): VU032321.D (-1490) (-)



#35

Methylcyclohexane

Concen: 125.925 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

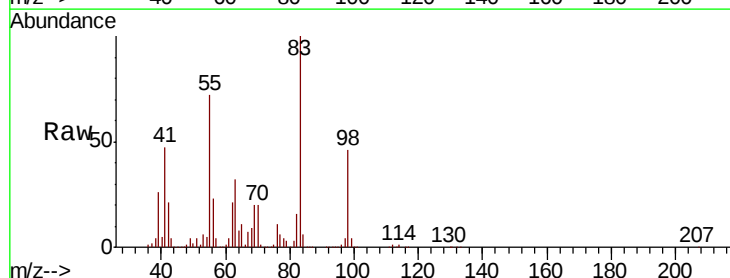
Tgt Ion: 83 Resp: 962421

Ion Ratio Lower Upper

83 100

55 74.2 59.4 89.0

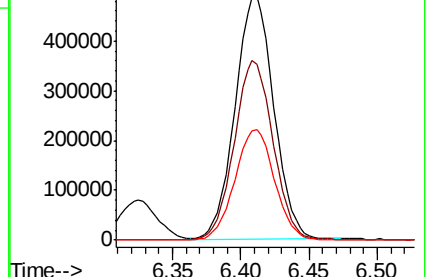
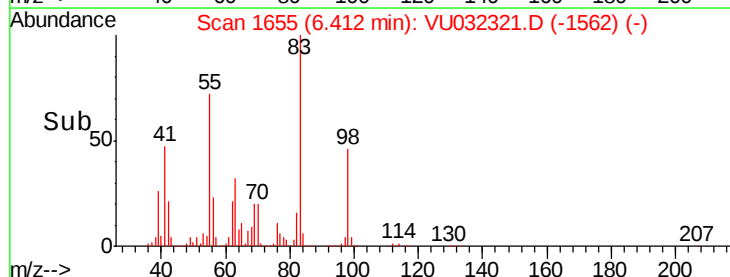
98 46.5 37.1 55.7

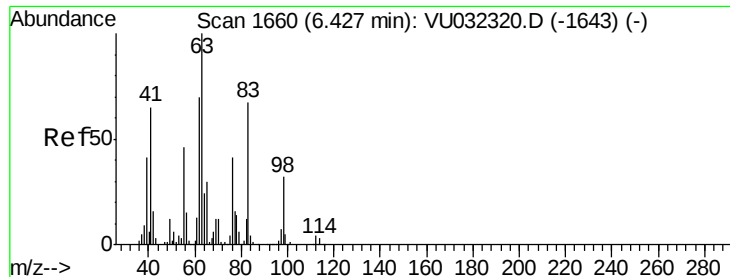


Abundance Ion 83.00 (82.70 to 83.70): VU032321.D (-1562) (-)

Ion 55.00 (54.70 to 55.70): VU032321.D (-1562) (-)

Ion 98.00 (97.70 to 98.70): VU032321.D (-1562) (-)

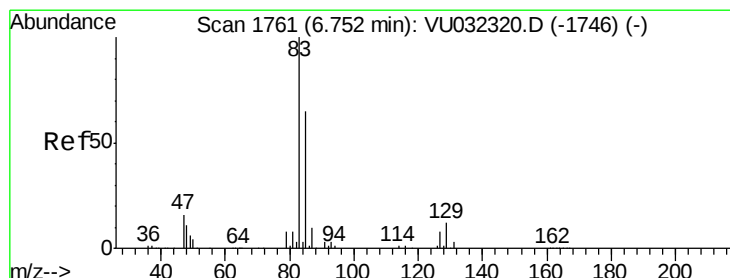
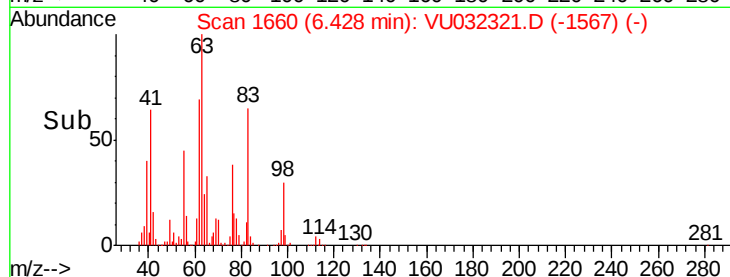
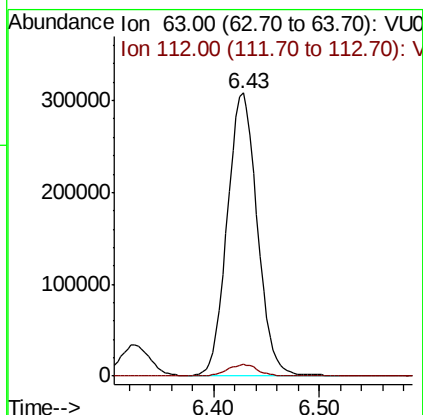
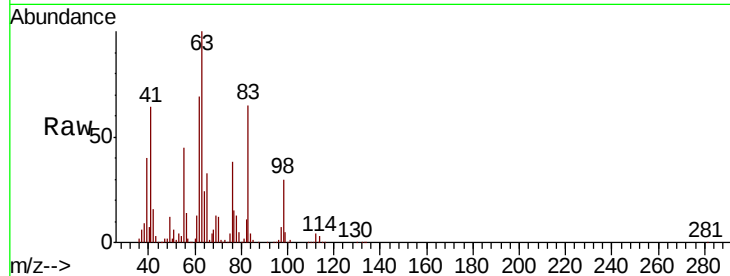




#37
 1,2-Dichloropropane
 Concen: 96.801 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU032321.D
 Acq: 28 May 2019 12:12

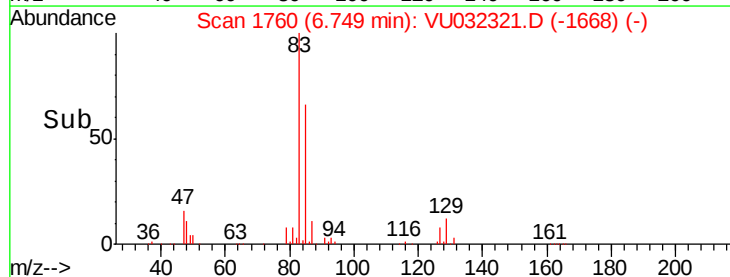
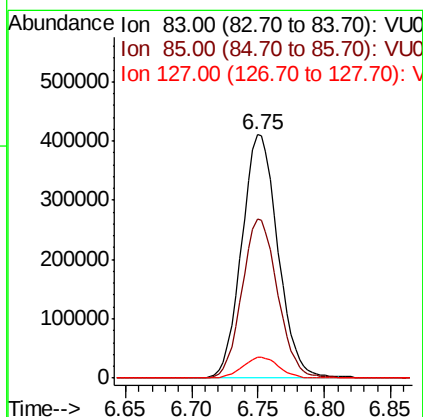
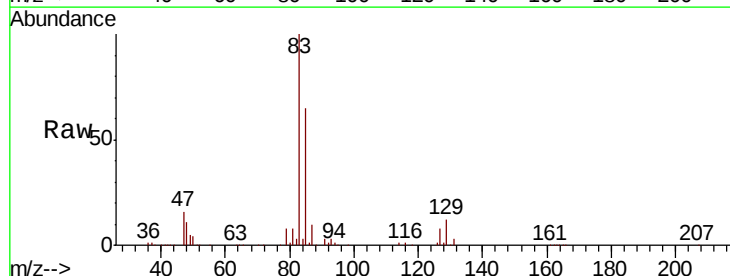
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10056

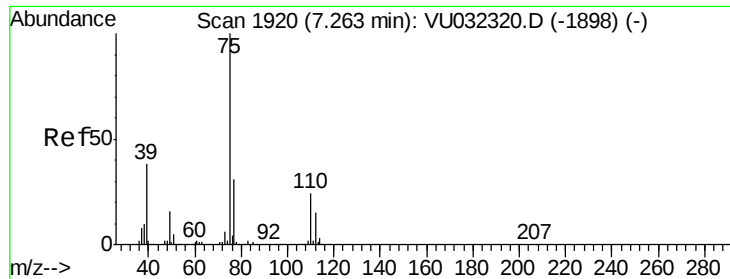
Tgt Ion: 63 Resp: 605070
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.3 4.9



#38
 Bromodichloromethane
 Concen: 90.310 ug/L
 RT: 6.75 min Scan# 1760
 Delta R.T. -0.00 min
 Lab File: VU032321.D
 Acq: 28 May 2019 12:12

Tgt Ion: 83 Resp: 775699
 Ion Ratio Lower Upper
 83 100
 85 65.3 45.4 84.2
 127 8.3 6.4 9.6

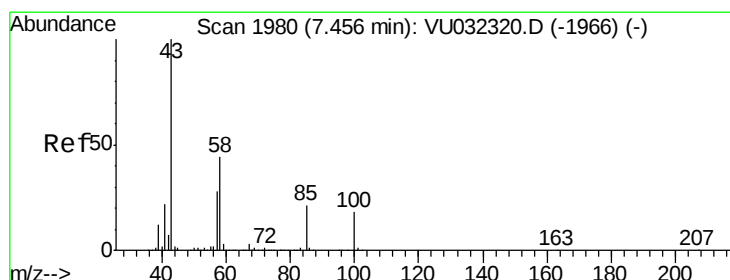
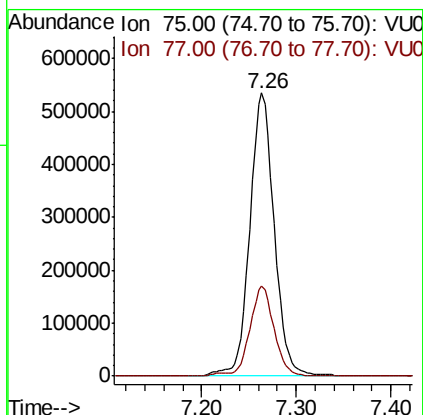
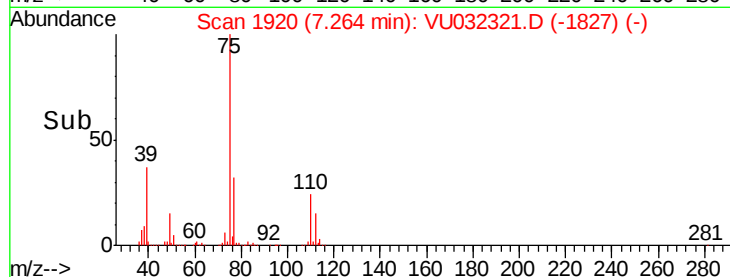
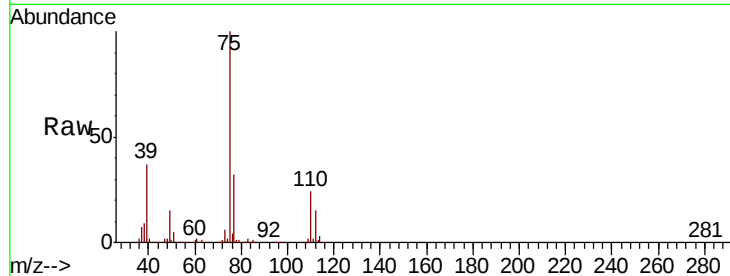




#39
 cis-1,3-Dichloropropene
 Concen: 104.582 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU032321.D
 Acq: 28 May 2019 12:12

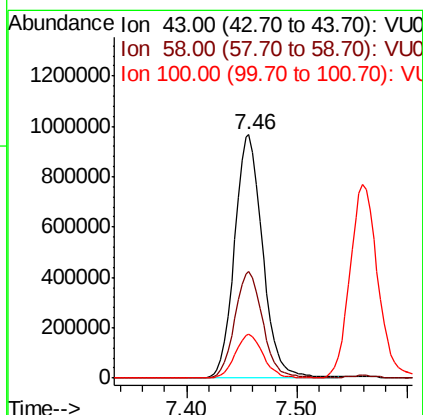
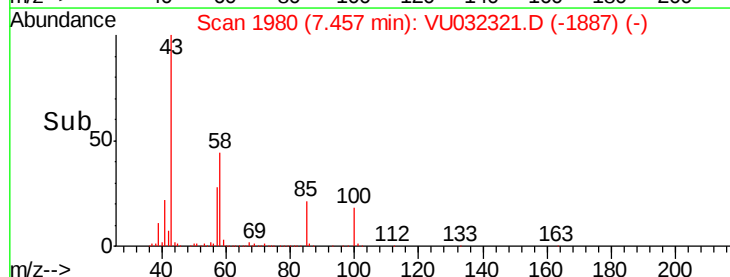
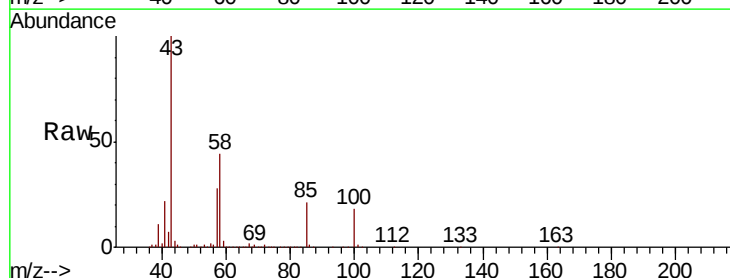
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10056

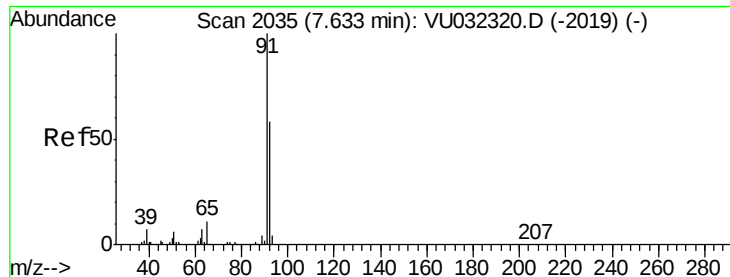
Tgt Ion: 75 Resp: 961700
 Ion Ratio Lower Upper
 75 100
 77 31.8 21.8 40.4



#40
 4-Methyl-2-pentanone
 Concen: 198.458 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU032321.D
 Acq: 28 May 2019 12:12

Tgt Ion: 43 Resp: 1701605
 Ion Ratio Lower Upper
 43 100
 58 43.8 34.6 52.0
 100 17.9 14.1 21.1





#42

Toluene

Concen: 103.140 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

Instrument :

MSVOA_U

ClientSampleId :

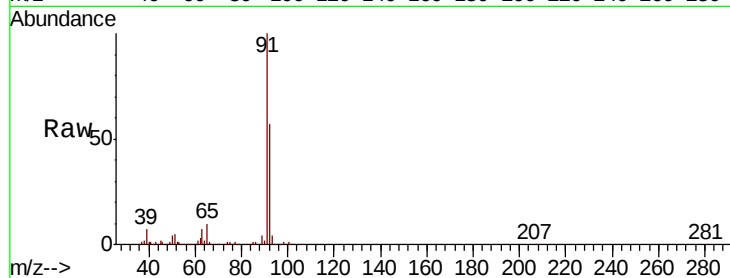
VSTD10056

Tgt Ion: 91 Resp: 2626904

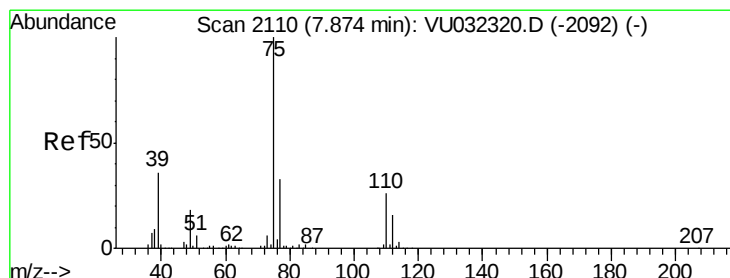
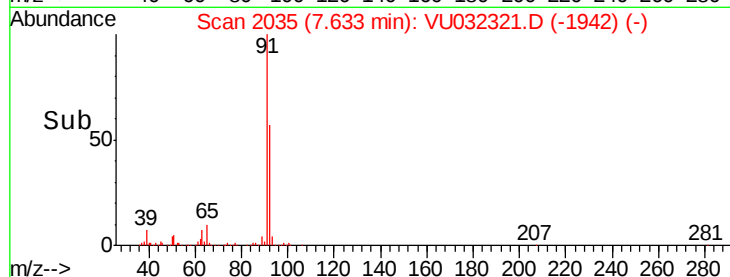
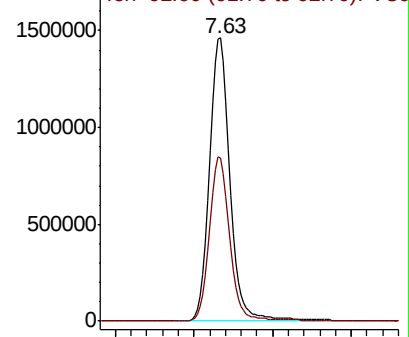
Ion Ratio Lower Upper

91 100

92 57.5 40.7 75.7



Abundance Ion 91.00 (90.70 to 91.70): VU032321.D (-1942) (-)



#44

trans-1,3-Dichloropropene

Concen: 105.455 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU032321.D

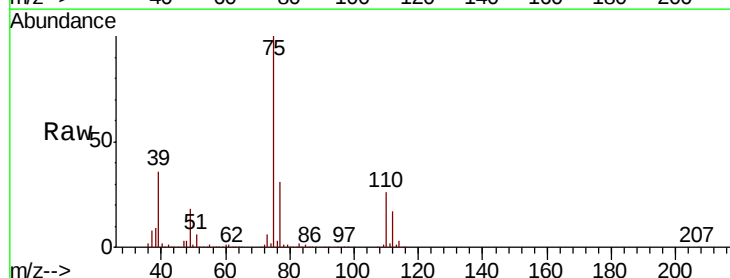
Acq: 28 May 2019 12:12

Tgt Ion: 75 Resp: 854106

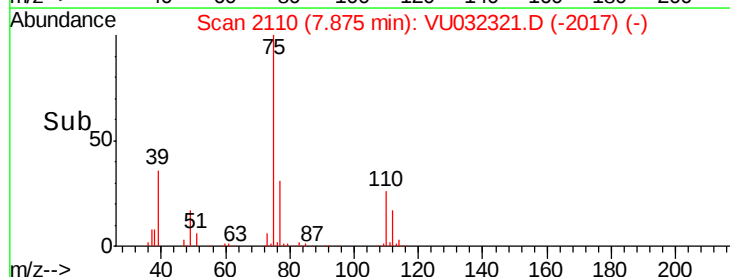
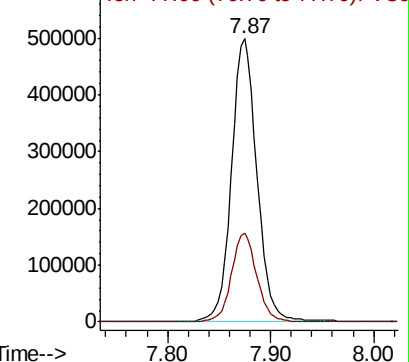
Ion Ratio Lower Upper

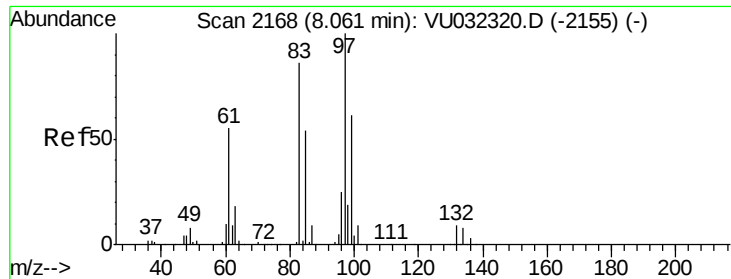
75 100

77 31.4 23.0 42.6



Abundance Ion 75.00 (74.70 to 75.70): VU032321.D (-2017) (-)

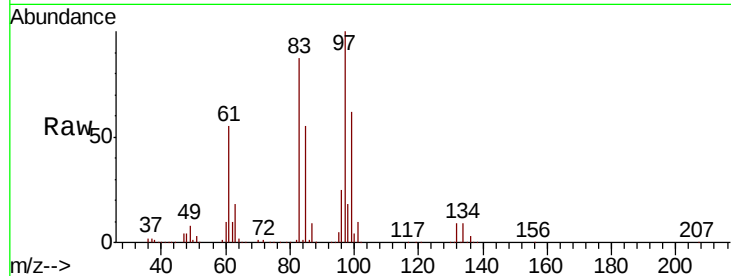




#45
 1,1,2-Trichloroethane
 Concen: 88.646 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU032321.D
 Acq: 28 May 2019 12:12

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10056

Tgt Ion:	97	Resp:	600580
Ion	Ratio	Lower	Upper
97	100		
99	62.0	42.6	79.0
83	86.7	60.3	112.1
85	55.0	38.1	70.9



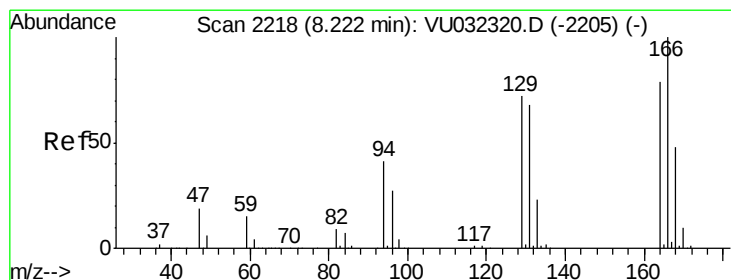
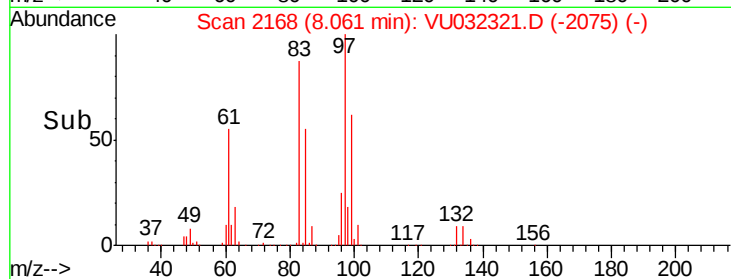
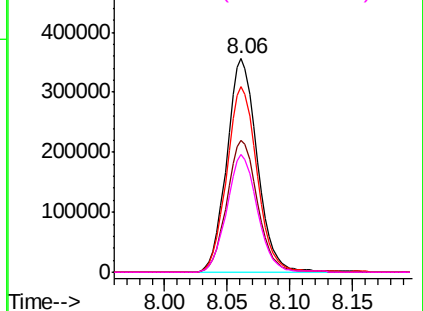
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

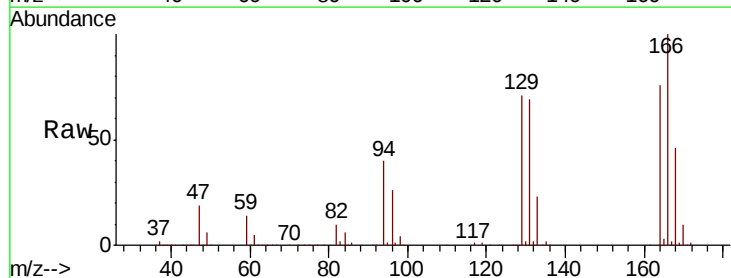
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 106.481 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU032321.D
 Acq: 28 May 2019 12:12

Tgt Ion:	164	Resp:	489366
Ion	Ratio	Lower	Upper
164	100		
129	93.0	63.9	118.7
131	90.7	60.4	112.2
166	130.7	88.3	164.1



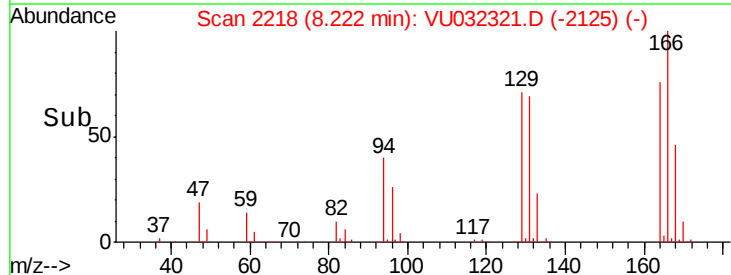
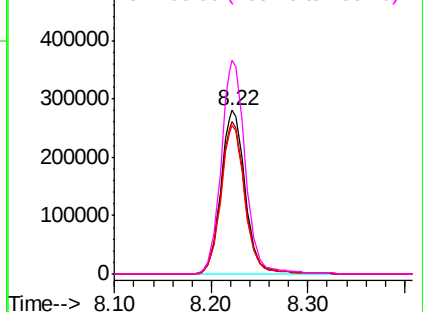
Abundance

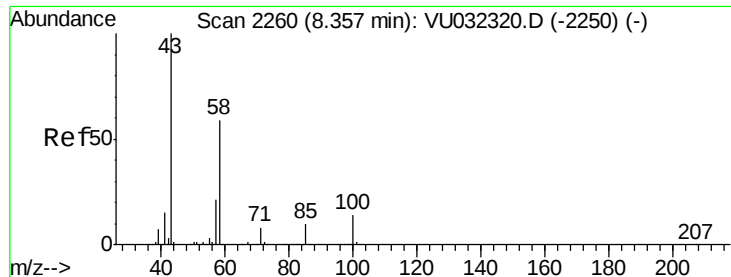
Ion 164.00 (163.70 to 164.70): V

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



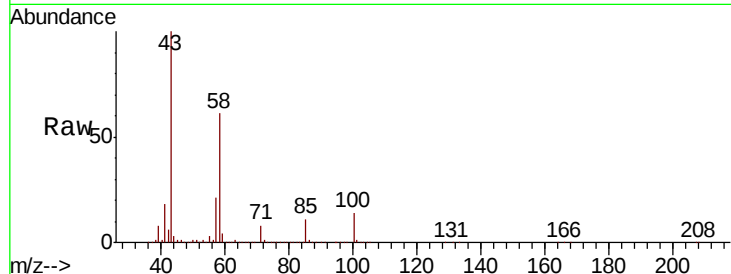


#48
2-Hexanone
Concen: 211.679 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU032321.D
Acq: 28 May 2019 12:12

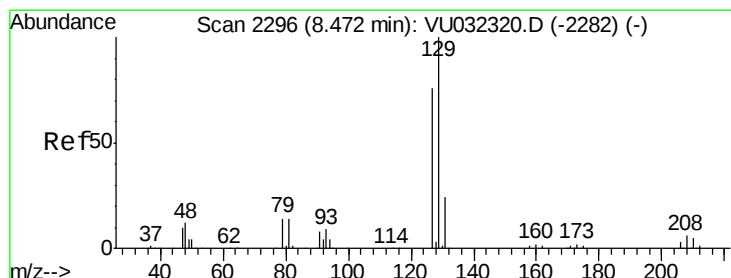
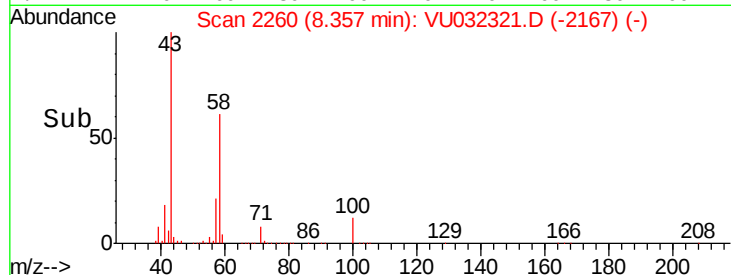
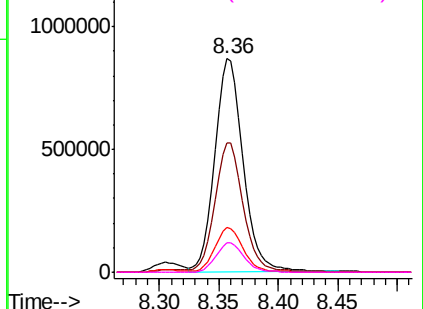
Instrument :
MSVOA_U
ClientSampleId :
VSTD10056

Tgt Ion: 43 Resp: 1425712

Ion	Ratio	Lower	Upper
43	100		
58	60.5	48.6	73.0
57	21.4	17.0	25.4
100	13.8	11.0	16.4



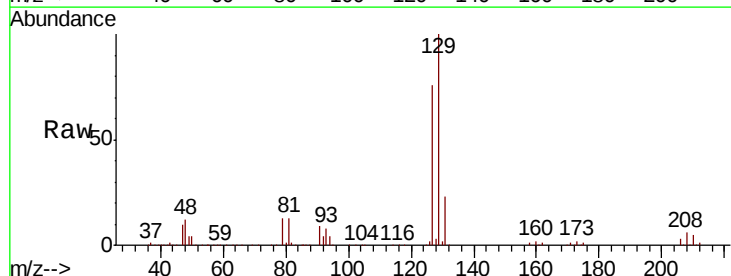
Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0



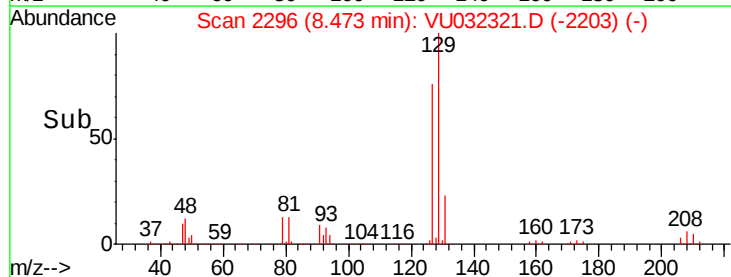
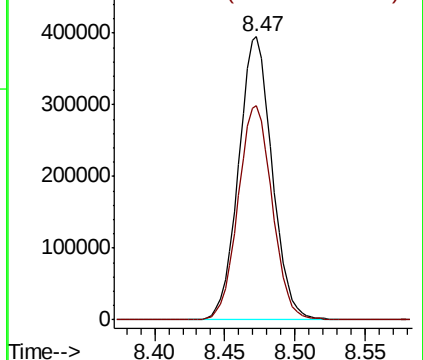
#49
Dibromochloromethane
Concen: 91.520 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032321.D
Acq: 28 May 2019 12:12

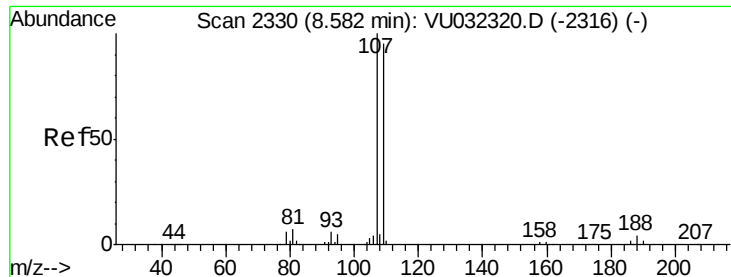
Tgt Ion: 129 Resp: 659297

Ion	Ratio	Lower	Upper
129	100		
127	75.8	53.3	99.1



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

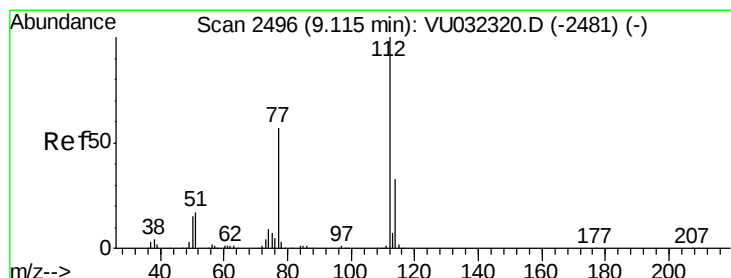
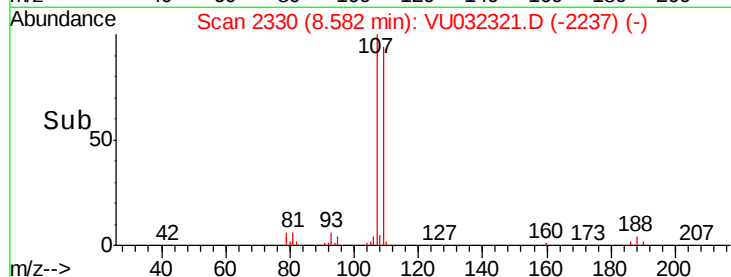
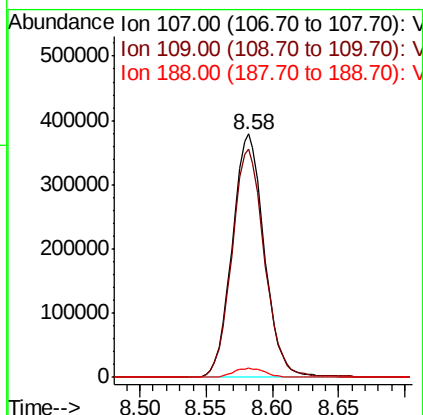
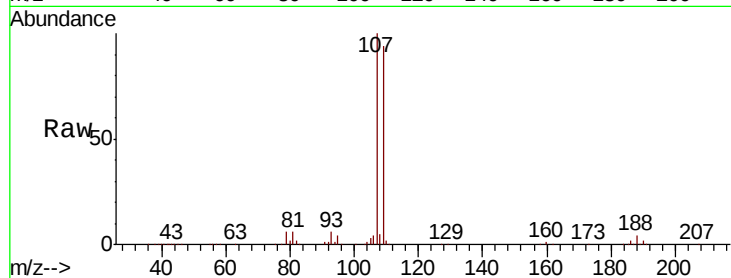




#50
 1,2-Dibromoethane
 Concen: 87.533 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. 0.00 min
 Lab File: VU032321.D
 Acq: 28 May 2019 12:12

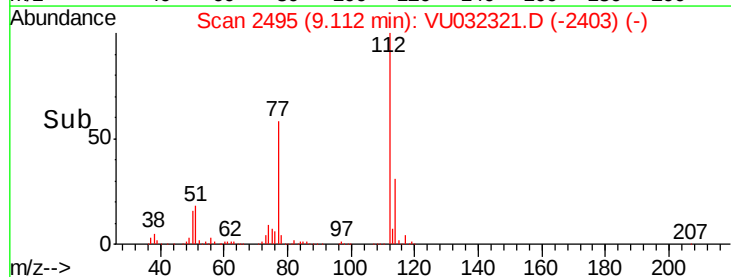
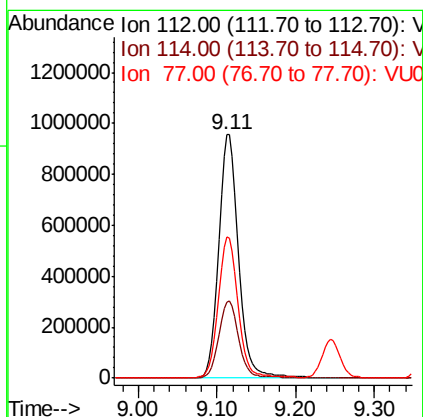
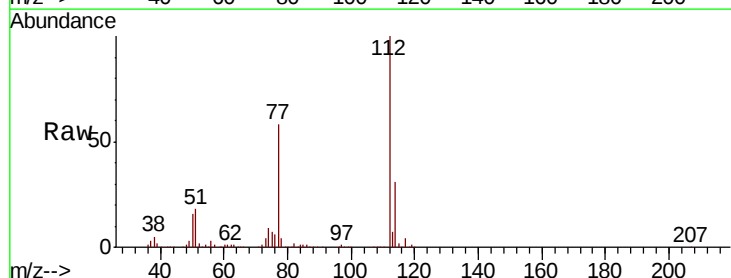
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10056

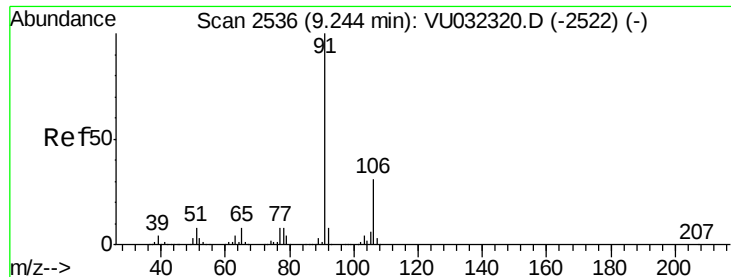
Tgt Ion:107 Resp: 636616
 Ion Ratio Lower Upper
 107 100
 109 93.8 66.7 123.9
 188 3.6 3.0 4.6



#51
 Chlorobenzene
 Concen: 97.041 ug/L
 RT: 9.11 min Scan# 2495
 Delta R.T. -0.00 min
 Lab File: VU032321.D
 Acq: 28 May 2019 12:12

Tgt Ion:112 Resp: 1650941
 Ion Ratio Lower Upper
 112 100
 114 31.2 22.9 42.5
 77 58.1 45.8 68.8





#52

Ethylbenzene

Concen: 109.266 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

Instrument :

MSVOA_U

ClientSampleId :

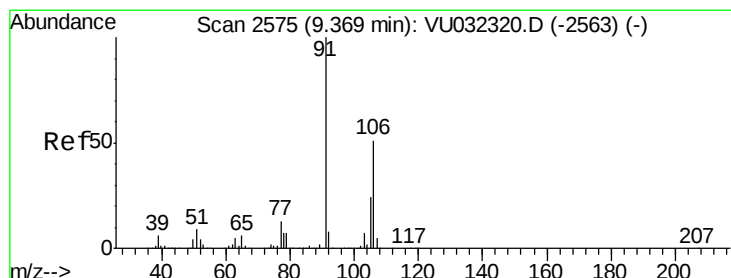
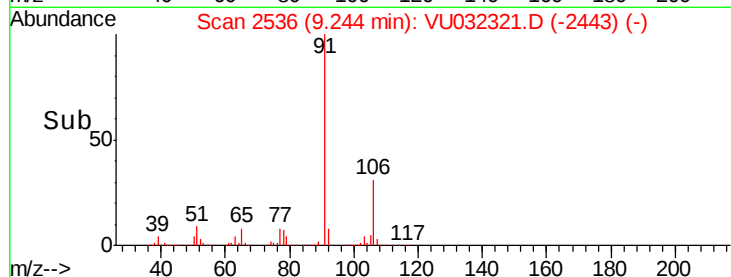
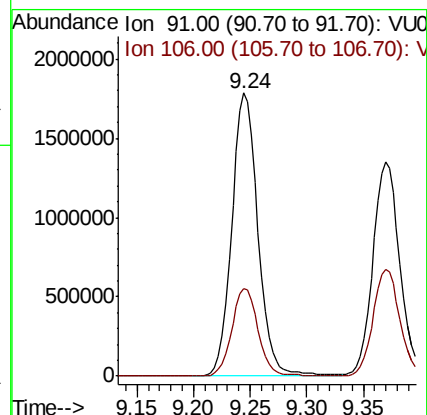
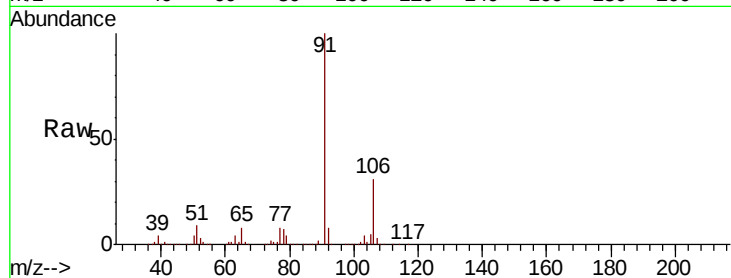
VSTD10056

Tgt Ion: 91 Resp: 2871984

Ion Ratio Lower Upper

91 100

106 31.0 22.0 40.8



#53

m,p-Xylene

Concen: 110.824 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032321.D

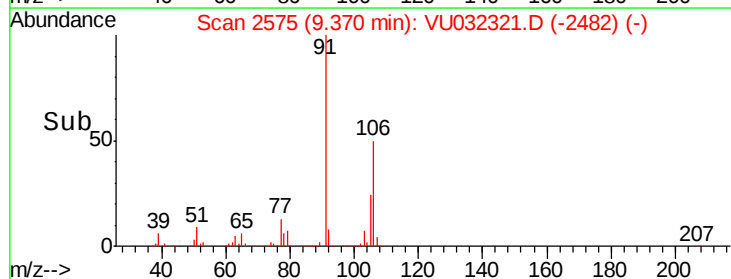
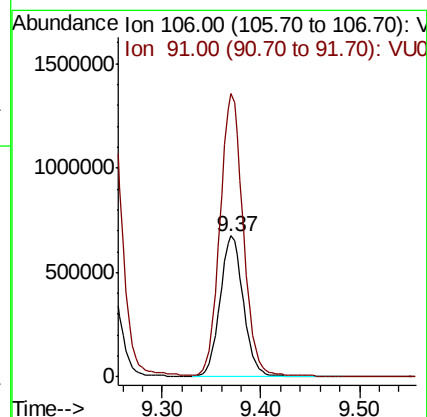
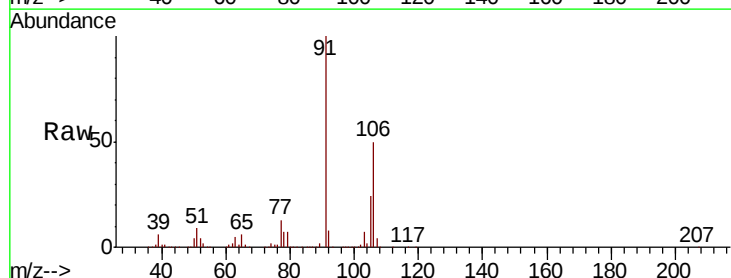
Acq: 28 May 2019 12:12

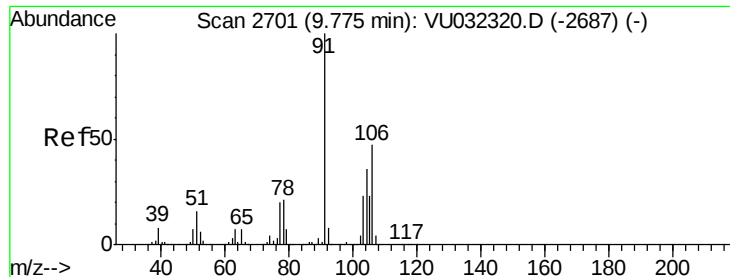
Tgt Ion: 106 Resp: 1124629

Ion Ratio Lower Upper

106 100

91 200.7 138.8 257.8





#54

o-xylene

Concen: 106.614 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

Instrument :

MSVOA_U

ClientSampleId :

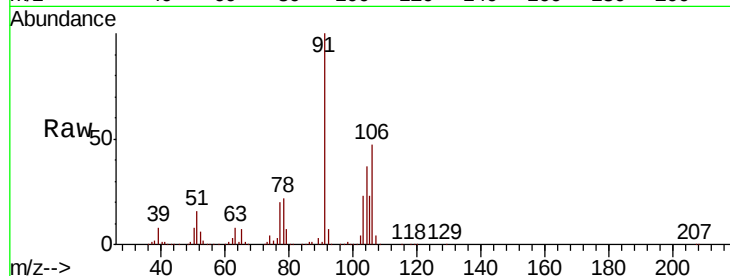
VSTD10056

Tgt Ion:106 Resp: 1116811

Ion Ratio Lower Upper

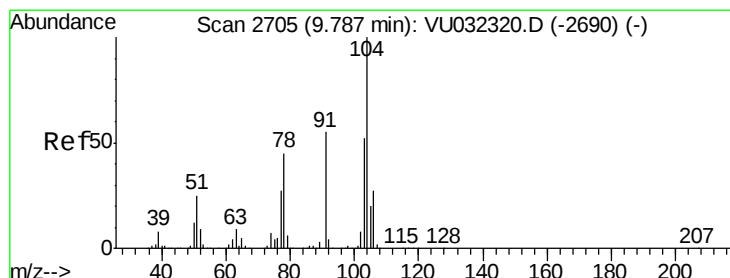
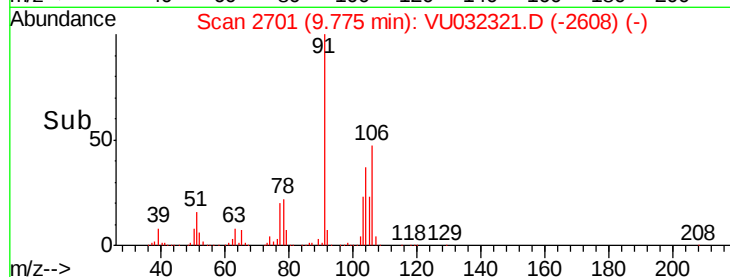
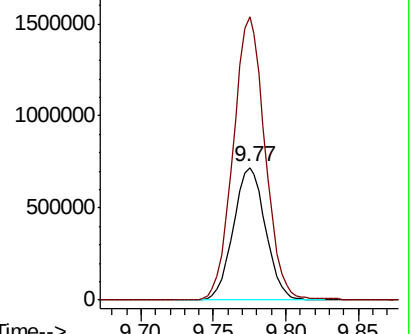
106 100

91 212.9 147.5 273.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 109.189 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU032321.D

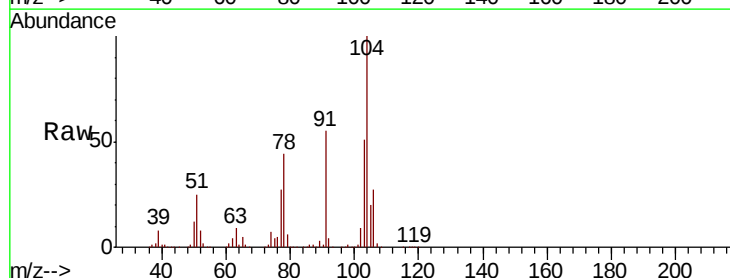
Acq: 28 May 2019 12:12

Tgt Ion:104 Resp: 1948652

Ion Ratio Lower Upper

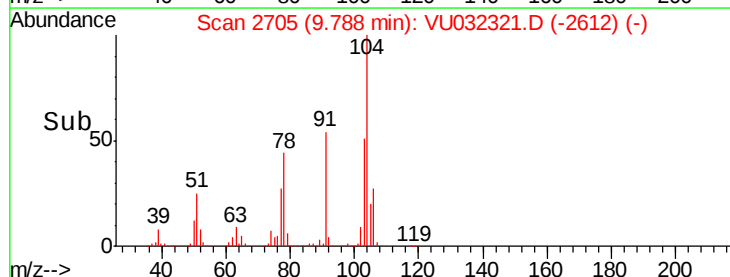
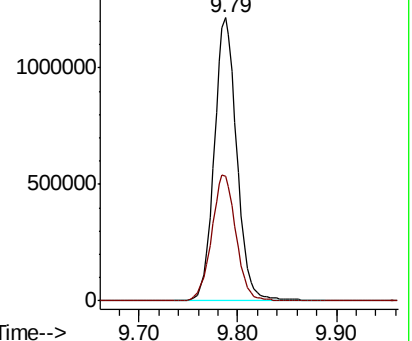
104 100

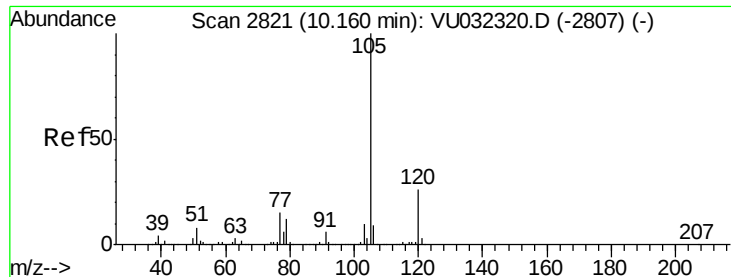
78 44.2 31.5 58.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 115.957 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD10056

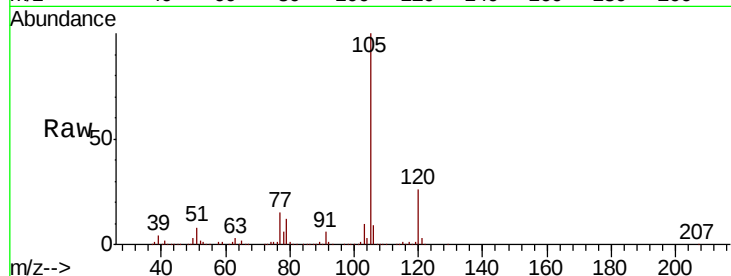
Tgt Ion:105 Resp: 2887758

Ion Ratio Lower Upper

105 100

120 26.4 21.0 31.4

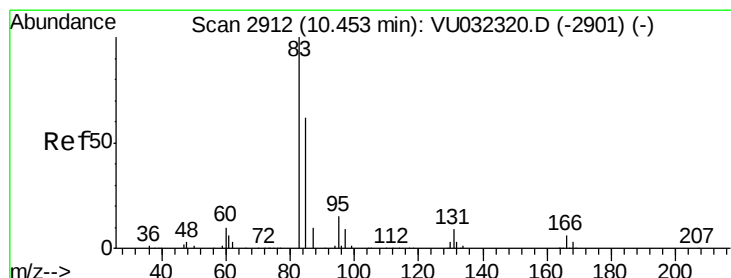
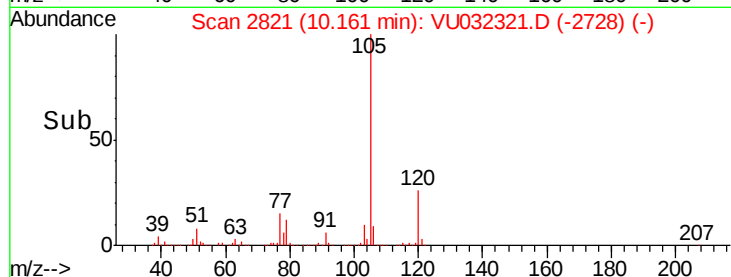
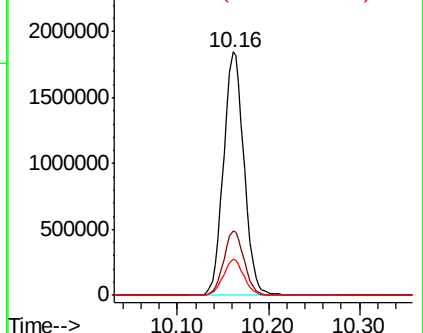
77 14.7 11.8 17.6



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: 90.551 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

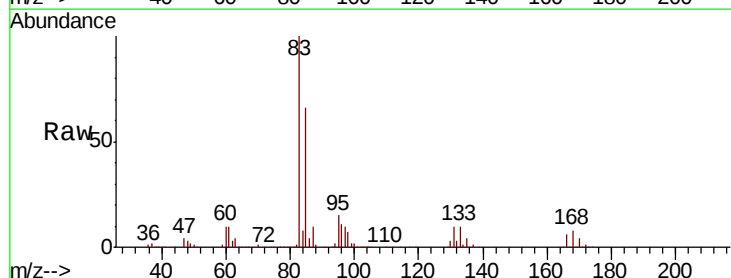
Tgt Ion: 83 Resp: 1044729

Ion Ratio Lower Upper

83 100

85 65.5 44.3 82.3

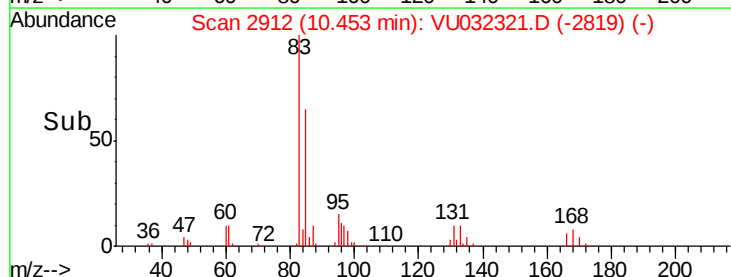
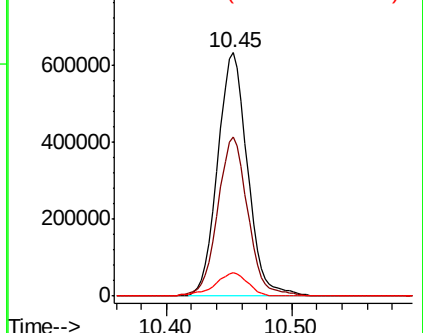
131 9.7 7.6 11.4

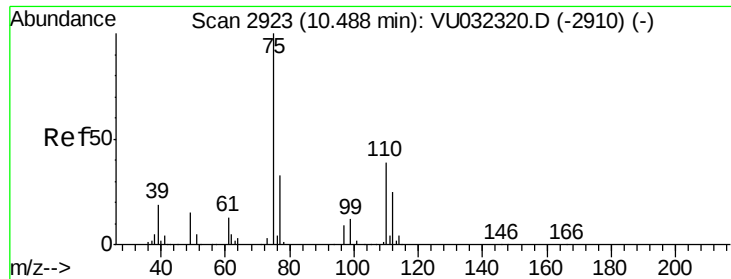


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 89.805 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

Instrument :

MSVOA_U

ClientSampleId :

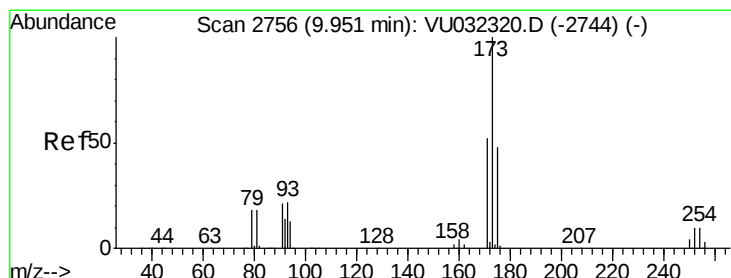
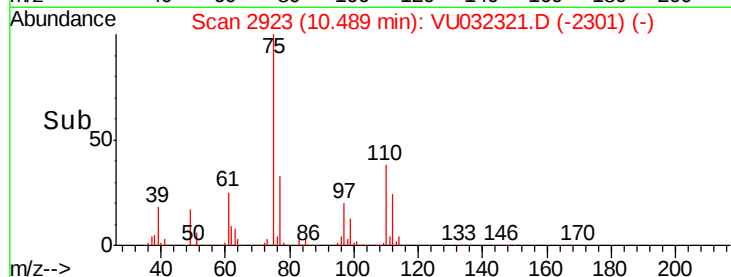
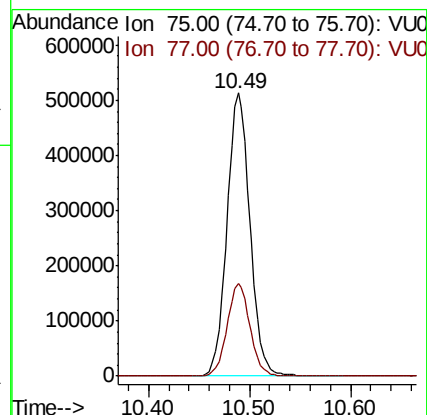
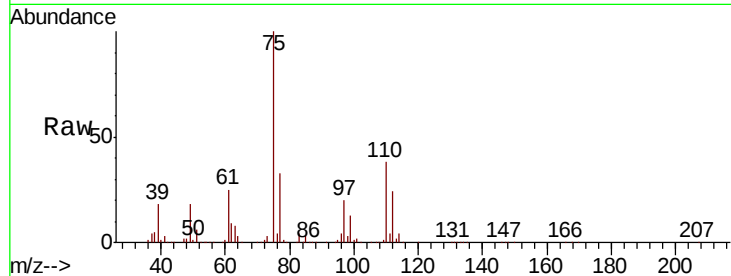
VSTD10056

Tgt Ion: 75 Resp: 815922

Ion Ratio Lower Upper

75 100

77 32.4 25.8 38.8



#61

Bromoform

Concen: 82.340 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

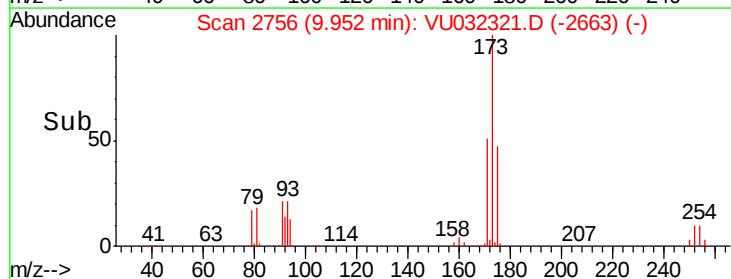
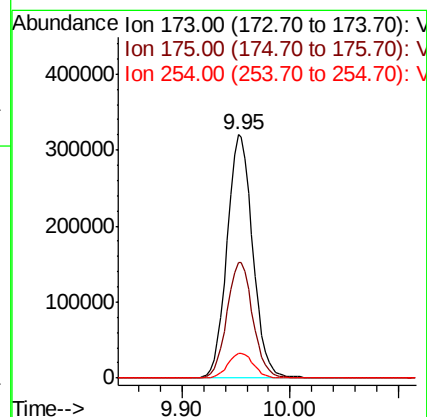
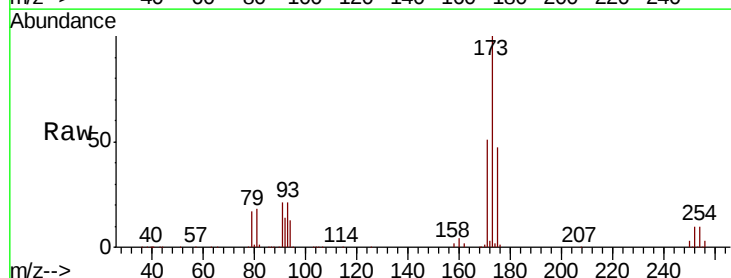
Tgt Ion: 173 Resp: 530174

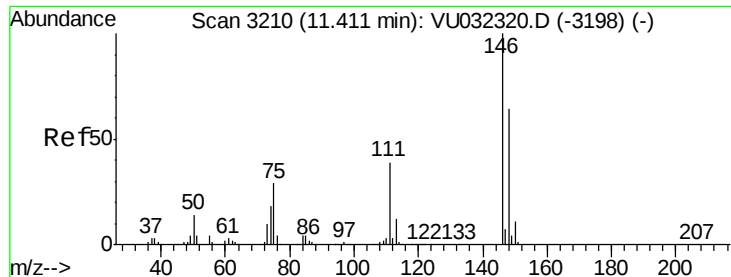
Ion Ratio Lower Upper

173 100

175 48.1 38.8 58.2

254 10.1 7.5 11.3





#62

1,3-Dichlorobenzene

Concen: 96.010 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD10056

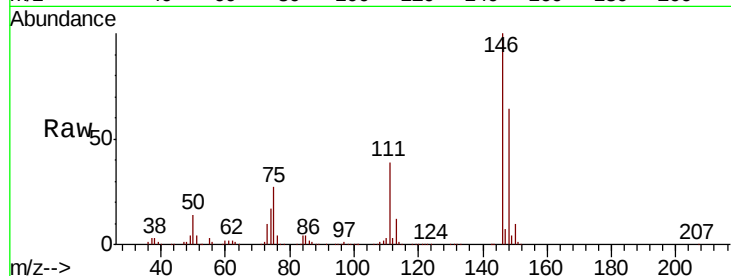
Tgt Ion:146 Resp: 1349092

Ion Ratio Lower Upper

146 100

111 38.5 27.6 51.2

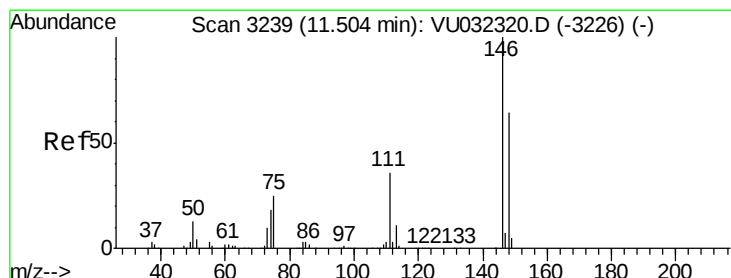
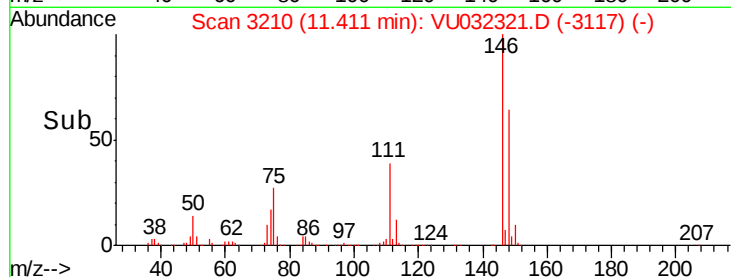
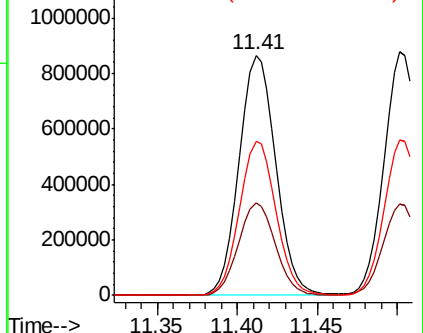
148 64.1 44.7 82.9



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: 93.987 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. -0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

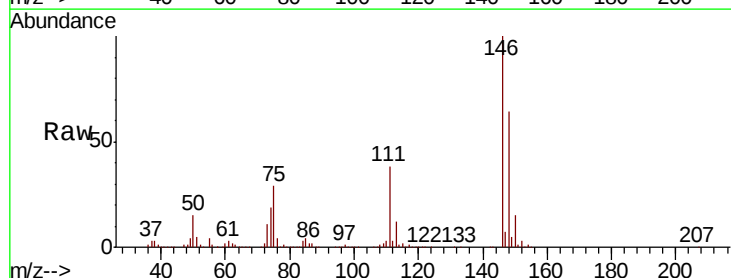
Tgt Ion:146 Resp: 1375413

Ion Ratio Lower Upper

146 100

111 37.7 25.6 47.4

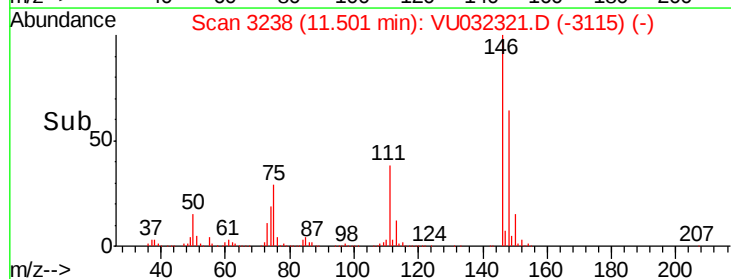
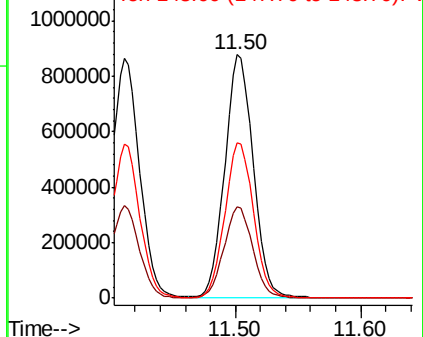
148 63.8 45.0 83.6

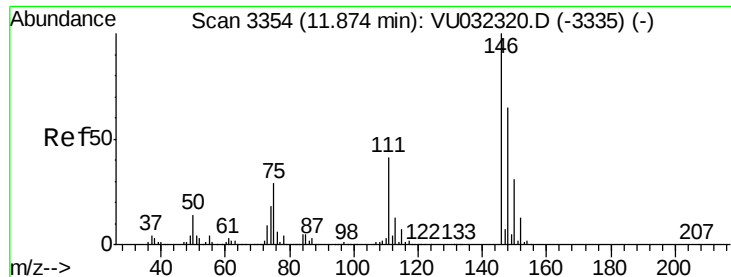


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

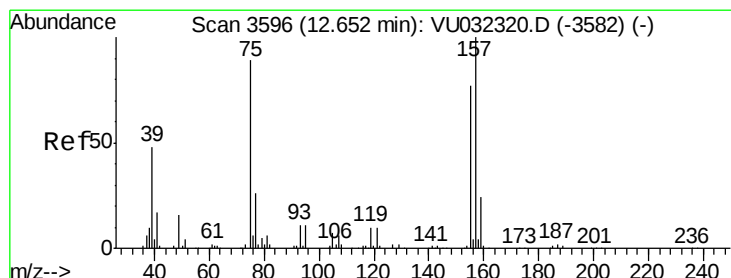
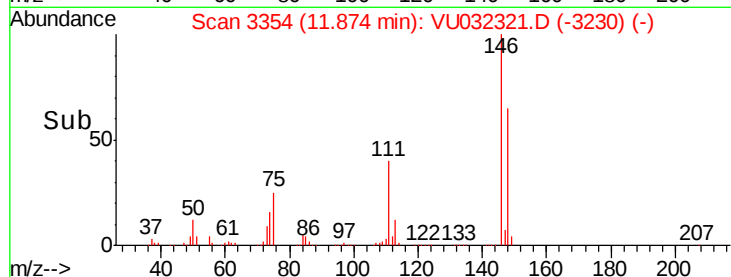
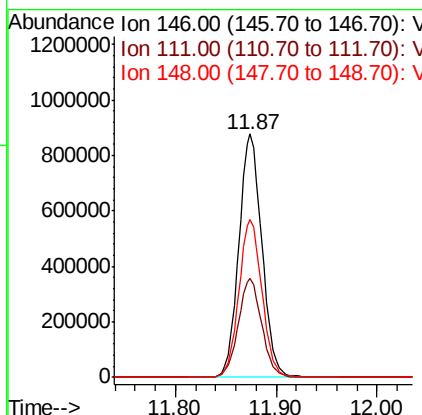
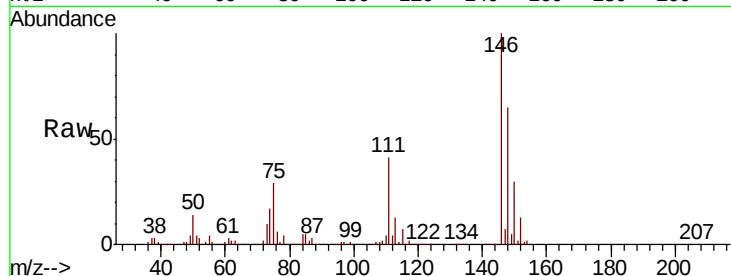




#65
 1,2-Dichlorobenzene
 Concen: 91.313 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU032321.D
 Acq: 28 May 2019 12:12

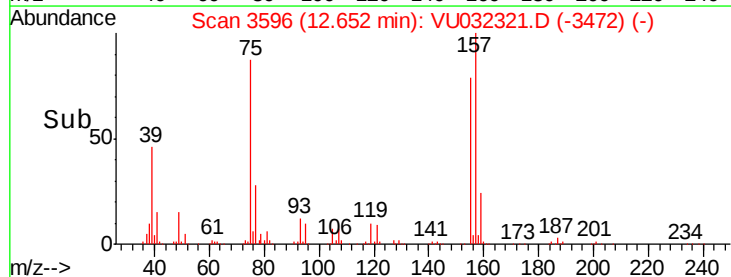
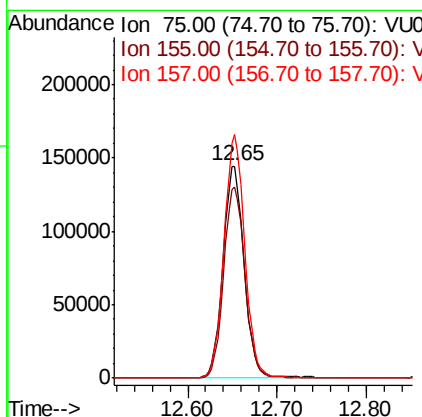
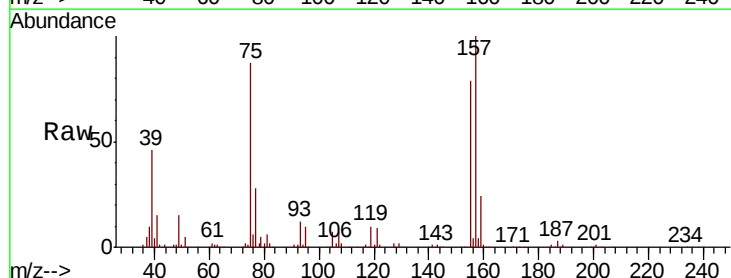
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10056

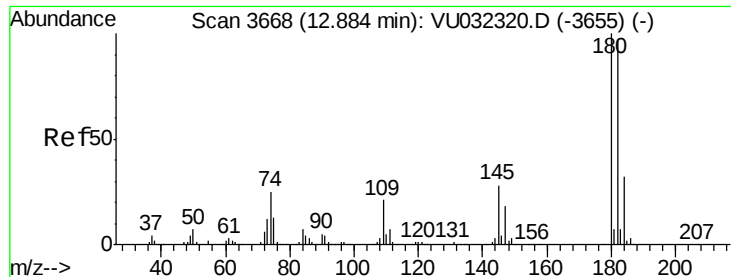
Tgt Ion: 146 Resp: 1384465
 Ion Ratio Lower Upper
 146 100
 111 40.7 33.1 49.7
 148 65.0 52.3 78.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 87.314 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU032321.D
 Acq: 28 May 2019 12:12

Tgt Ion: 75 Resp: 237214
 Ion Ratio Lower Upper
 75 100
 155 90.3 69.5 104.3
 157 114.8 89.8 134.6

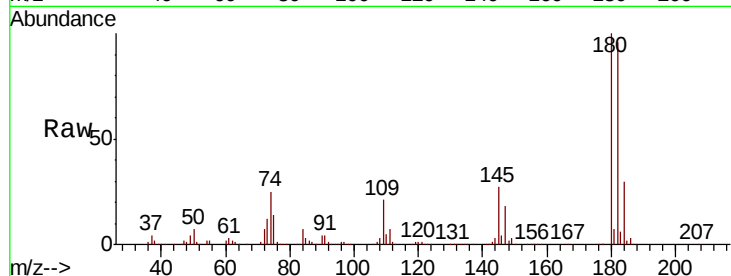




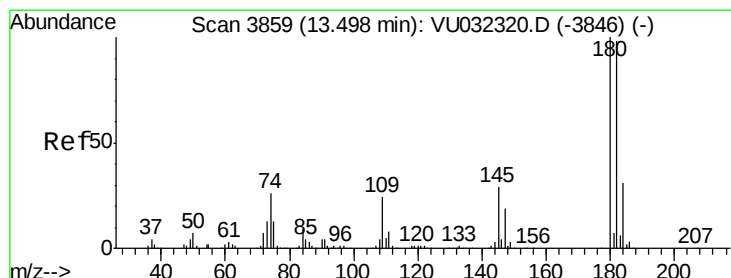
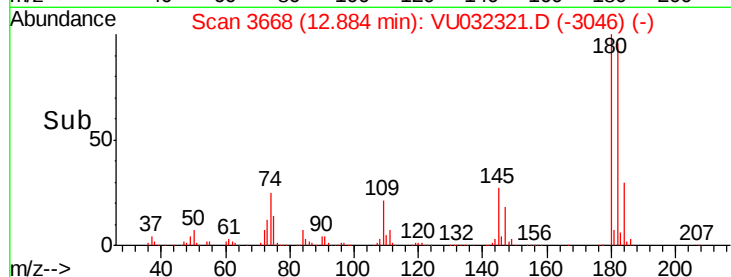
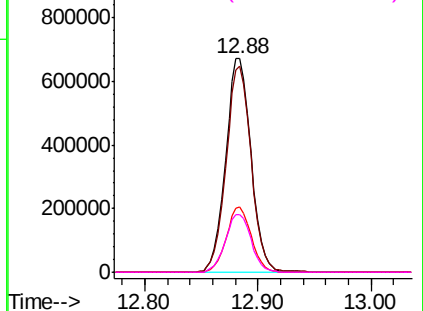
#67
 1,3,5-Trichlorobenzene
 Concen: 104.201 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU032321.D
 Acq: 28 May 2019 12:12

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10056

Tgt Ion:180 Resp: 1045114
 Ion Ratio Lower Upper
 180 100
 182 95.4 78.3 117.5
 184 30.1 25.0 37.4
 145 27.5 22.6 33.8

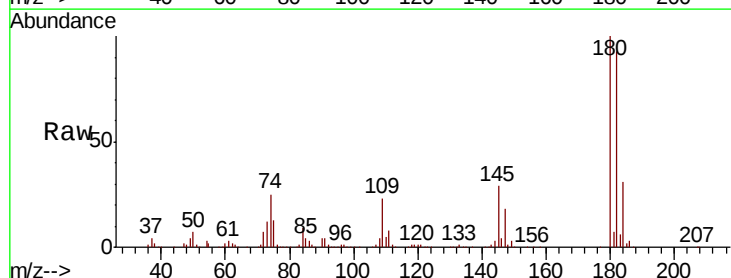


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

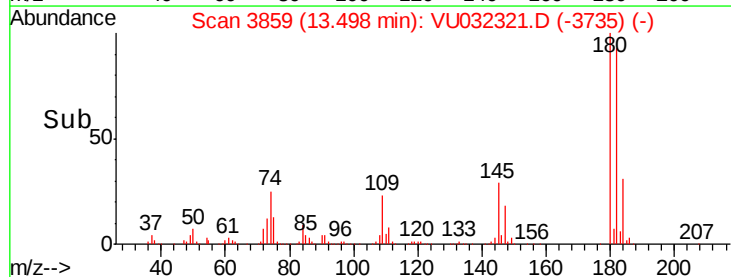
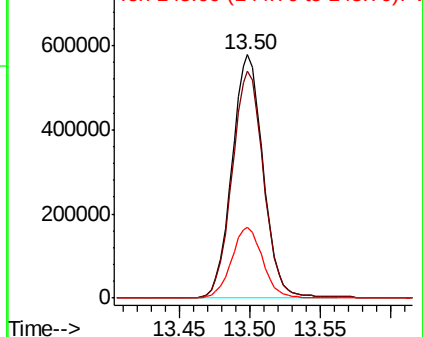


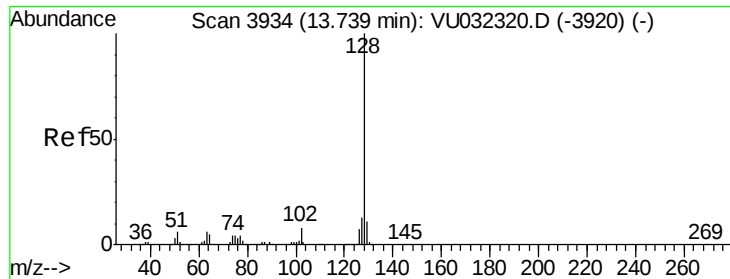
#68
 1,2,4-trichlorobenzene
 Concen: 113.791 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU032321.D
 Acq: 28 May 2019 12:12

Tgt Ion:180 Resp: 898084
 Ion Ratio Lower Upper
 180 100
 182 94.6 78.2 117.4
 145 29.1 23.0 34.4



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: 108.163 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. -0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD10056

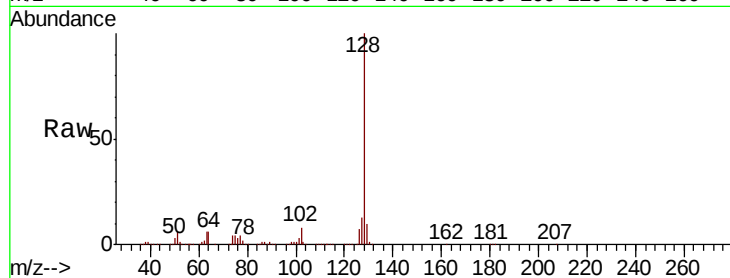
Tgt Ion:128 Resp: 2918727

Ion Ratio Lower Upper

128 100

127 12.9 10.1 15.1

129 10.4 8.7 13.1

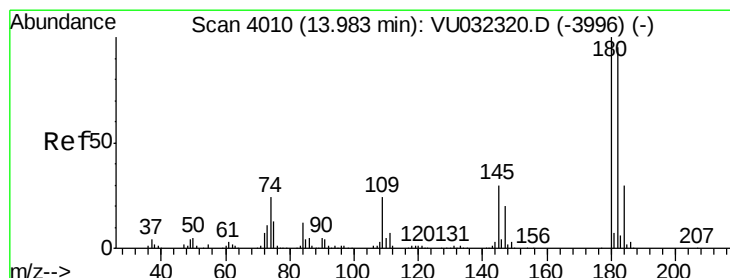
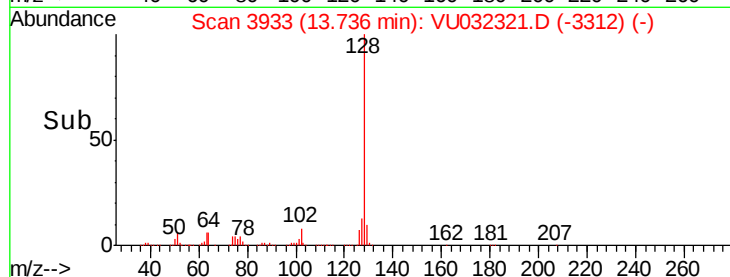
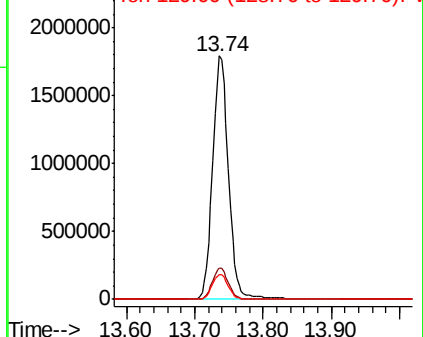


Abundance

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: 105.441 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. -0.00 min

Lab File: VU032321.D

Acq: 28 May 2019 12:12

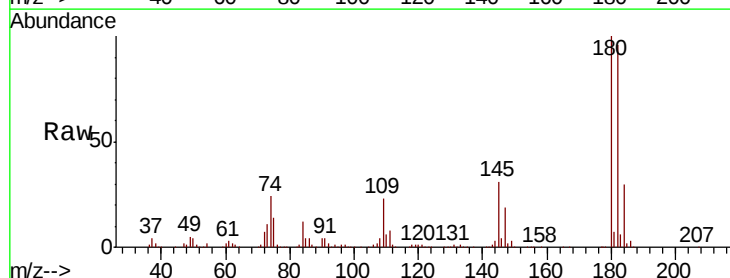
Tgt Ion:180 Resp: 947352

Ion Ratio Lower Upper

180 100

182 94.7 77.7 116.5

145 30.3 24.3 36.5



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

