

Data File : VU029821.D
Acq On : 05 Mar 2019 14:36
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

Quant Time: Mar 06 00:45:56 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM021519WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Mar 06 00:41:37 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	510177	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	502992	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	273056	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	162779	43.54	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.08%
7) Chloroethane-d5	1.68	69	133181	40.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	80.14%
11) 1,1-Dichloroethene-d2	2.27	63	291638	39.91	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	79.82%
21) 2-Butanone-d5	4.17	46	238060	104.64	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.64%
24) Chloroform-d	4.64	84	289062	47.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.34%
26) 1,2-Dichloroethane-d4	5.31	65	177053	46.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.24%
32) Benzene-d6	5.34	84	629482	49.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.48%
36) 1,2-Dichloropropane-d6	6.33	67	190723	50.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.18%
41) Toluene-d8	7.56	98	607144	47.01	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.02%
43) trans-1,3-Dichloropropene-	7.85	79	91864	45.48	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.96%
47) 2-Hexanone-d5	8.31	63	210389	99.22	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.22%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	302269	46.98	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.96%
64) 1,2-Dichlorobenzene-d4	11.86	152	265342	45.09	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.18%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	161831	46.262	ug/L	100
3) Chloromethane	1.33	50	157455	51.309	ug/L	98
5) Vinyl chloride	1.40	62	181640	43.583	ug/L	100
6) Bromomethane	1.62	94	109405	57.519	ug/L	98
8) Chloroethane	1.69	64	112824	40.701	ug/L	97
9) Trichlorofluoromethane	1.88	101	253051	38.089	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	157071	44.199	ug/L	99
12) 1,1-Dichloroethene	2.28	96	145584	43.092	ug/L	88
13) Acetone	2.32	43	162728	66.938	ug/L	97
14) Carbon disulfide	2.47	76	423306	47.841	ug/L	99
15) Methyl Acetate	2.61	43	170514	54.039	ug/L	99
16) Methylene chloride	2.70	84	169570	51.870	ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	155027	49.716	ug/L	98
18) Methyl tert-butyl Ether	3.00	73	476920	49.401	ug/L	98
19) 1,1-Dichloroethane	3.44	63	276498	51.280	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	181822	50.181	ug/L	98
22) 2-Butanone	4.26	43	249515	89.935	ug/L	99

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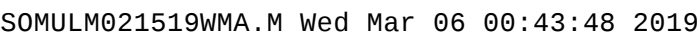
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

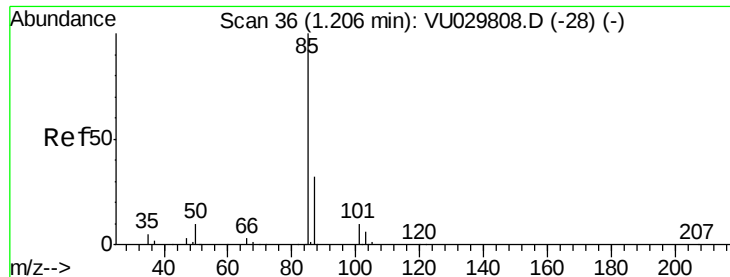
Quant Time: Mar 06 00:45:56 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM021519WMA.M
Quant Title : VOC Analysis
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	96760	48.714	ug/L	96
25) Chloroform	4.67	83	305136	50.721	ug/L	100
27) 1,2-Dichloroethane	5.40	62	213278	46.111	ug/L	98
29) Cyclohexane	4.99	56	239886	48.192	ug/L	96
30) 1,1,1-Trichloroethane	4.91	97	248954	46.680	ug/L	99
31) Carbon tetrachloride	5.13	117	216993	44.953	ug/L	98
33) Benzene	5.39	78	647208	50.187	ug/L	100
34) Trichloroethene	6.18	95	169728	48.856	ug/L	96
35) Methylcyclohexane	6.41	83	276224	47.878	ug/L	98
37) 1,2-Dichloropropane	6.43	63	171016	50.518	ug/L	100
38) Bromodichloromethane	6.75	83	217589	47.677	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	269269	49.301	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	459853	96.600	ug/L	98
42) Toluene	7.63	91	726187	47.617	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	241411	46.900	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	176224	48.839	ug/L	98
46) Tetrachloroethene	8.22	164	153389	45.110	ug/L	99
48) 2-Hexanone	8.36	43	365007	87.772	ug/L	97
49) Dibromochloromethane	8.47	129	197558	45.163	ug/L	99
50) 1,2-Dibromoethane	8.58	107	192598	48.177	ug/L	97
51) Chlorobenzene	9.12	112	486620	46.489	ug/L	98
52) Ethylbenzene	9.25	91	805967	46.532	ug/L	100
53) m,p-Xylene	9.37	106	318536	45.814	ug/L	99
54) o-xylene	9.77	106	315468	45.170	ug/L	99
55) Styrene	9.79	104	541482	45.928	ug/L	94
56) Isopropylbenzene	10.16	105	822846	45.025	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	304455	47.716	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	228941	47.432	ug/L	99
61) Bromoform	9.95	173	157303	42.778	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	403927	46.396	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	407979	46.566	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	411910	45.325	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	66872	47.286	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	311212	46.843	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	283338	49.309	ug/L	99
69) Naphthalene	13.74	128	862306	48.822	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	288662	47.305	ug/L	100

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

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#2

Dichlorodifluoromethane

Concen: 46.262 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

Instrument :

MSVOA_U

ClientSampleId :

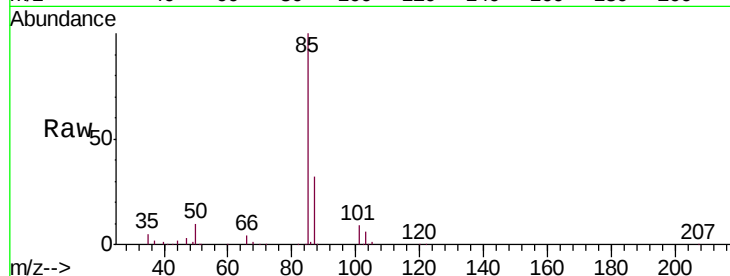
VSTD05050

Tgt Ion: 85 Resp: 161831

Ion Ratio Lower Upper

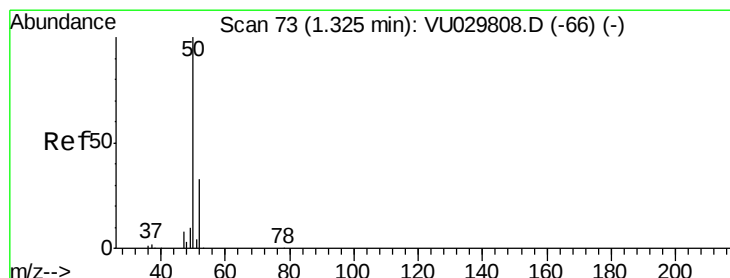
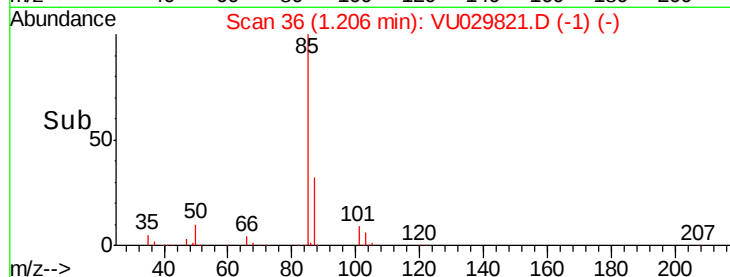
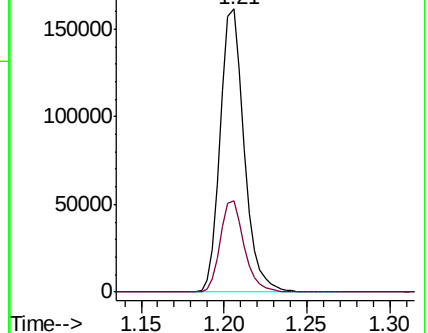
85 100

87 32.2 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 51.309 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU029821.D

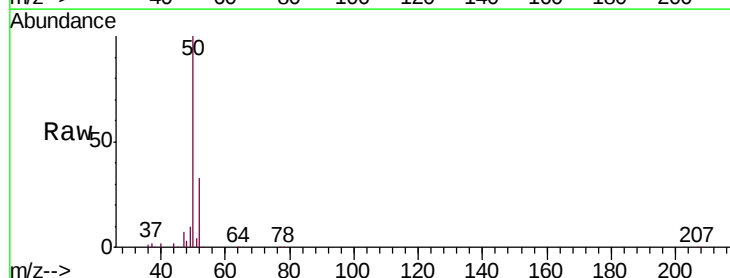
Acq: 05 Mar 2019 14:36

Tgt Ion: 50 Resp: 157455

Ion Ratio Lower Upper

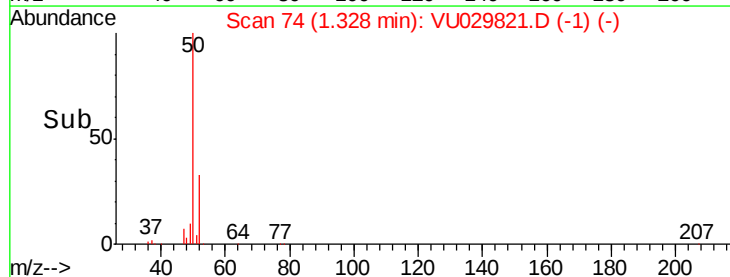
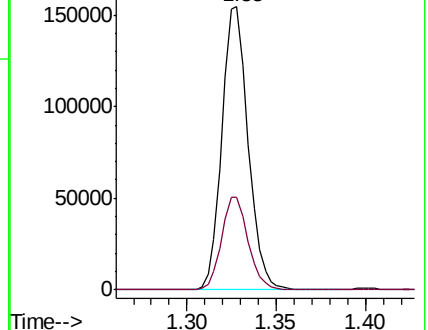
50 100

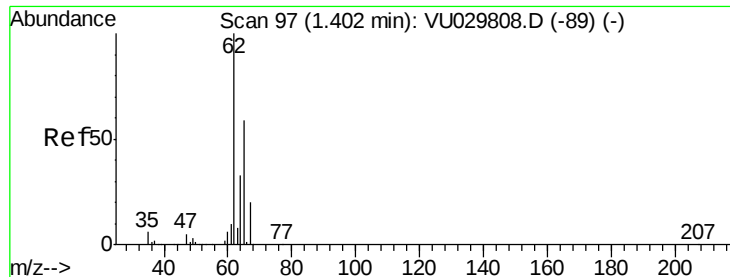
52 32.7 23.9 44.3



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 43.583 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

Instrument :

MSVOA_U

ClientSampleId :

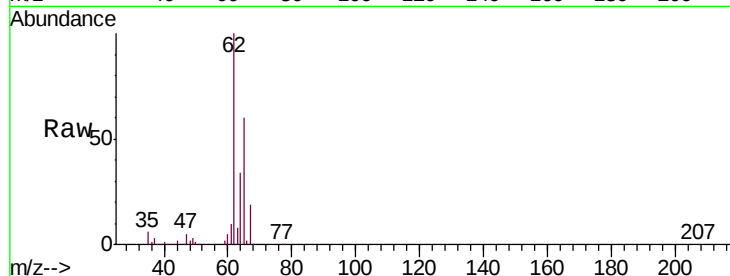
VSTD05050

Tgt Ion: 62 Resp: 181640

Ion Ratio Lower Upper

62 100

64 33.6 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

1.40

200000

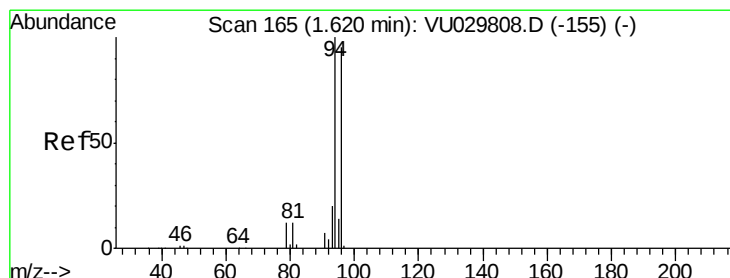
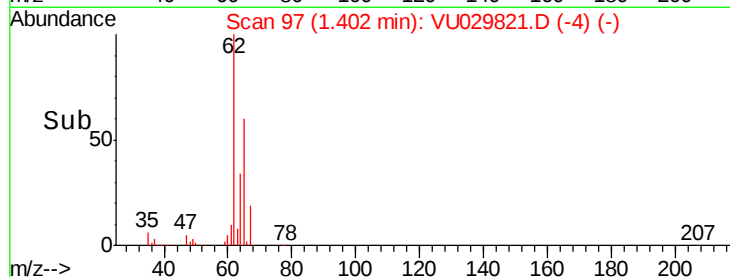
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 57.519 ug/L

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU029821.D

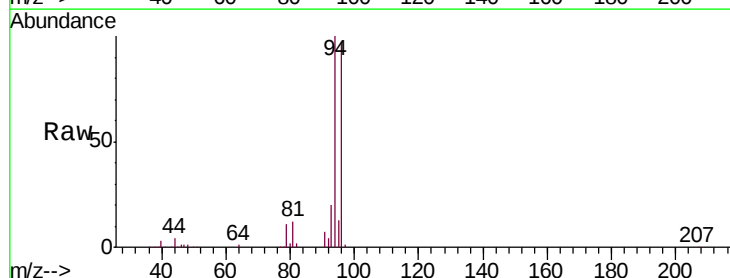
Acq: 05 Mar 2019 14:36

Tgt Ion: 94 Resp: 109405

Ion Ratio Lower Upper

94 100

96 96.5 66.4 123.2



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.62

100000

80000

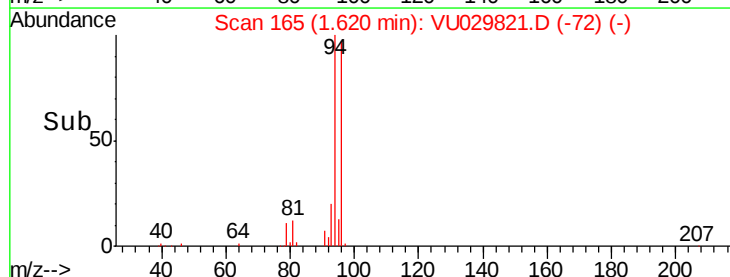
60000

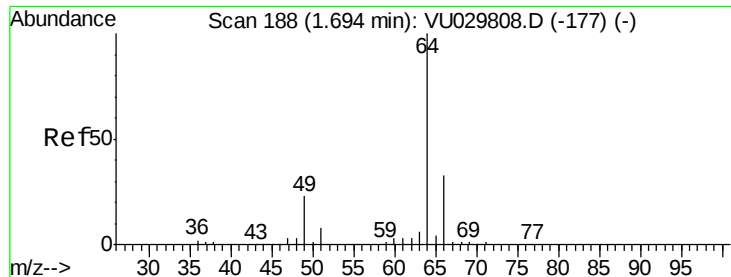
40000

20000

0

Time-->





#8

Chloroethane

Concen: 40.701 ug/L

RT: 1.69 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

Instrument :

MSVOA_U

ClientSampleId :

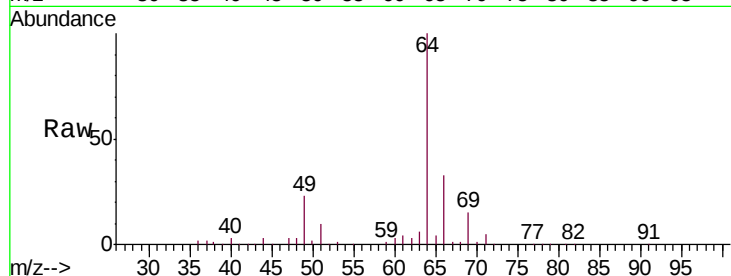
VSTD05050

Tgt Ion: 64 Resp: 112824

Ion Ratio Lower Upper

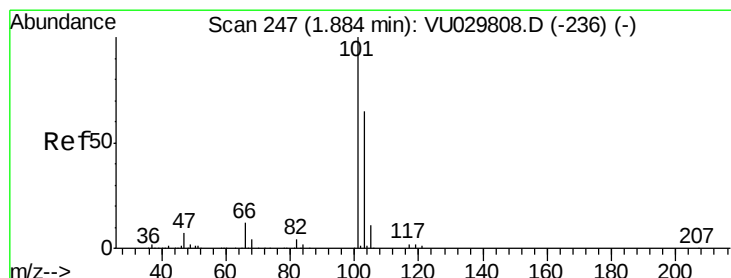
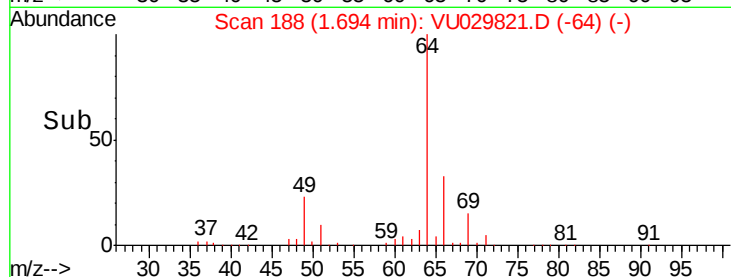
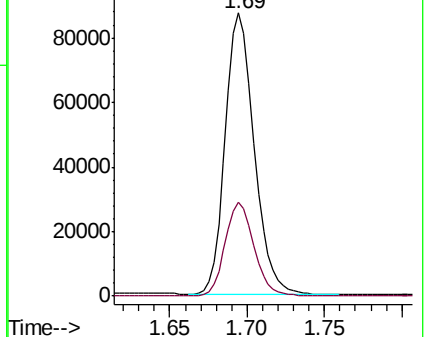
64 100

66 33.0 22.0 41.0



Abundance Ion 64.00 (63.70 to 64.70): VU029808.D (-177) (-)

Ion 66.00 (65.70 to 66.70): VU029808.D (-177) (-)



#9

Trichlorofluoromethane

Concen: 38.089 ug/L

RT: 1.88 min Scan# 247

Delta R.T. -0.00 min

Lab File: VU029821.D

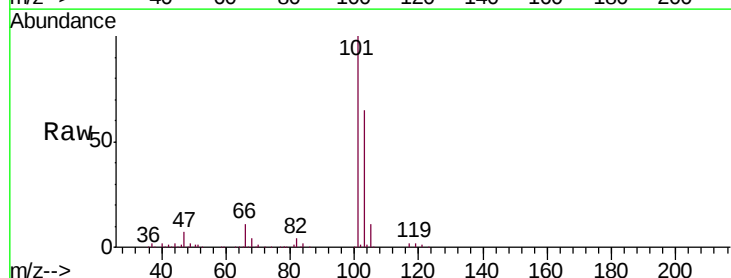
Acq: 05 Mar 2019 14:36

Tgt Ion: 101 Resp: 253051

Ion Ratio Lower Upper

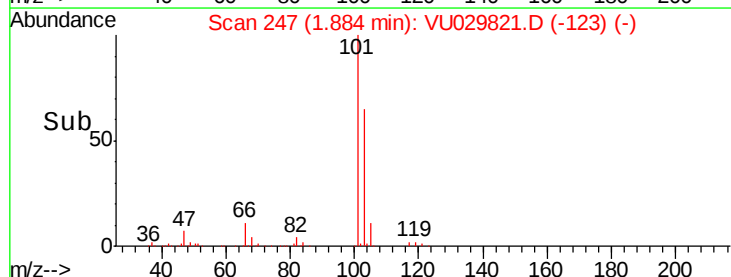
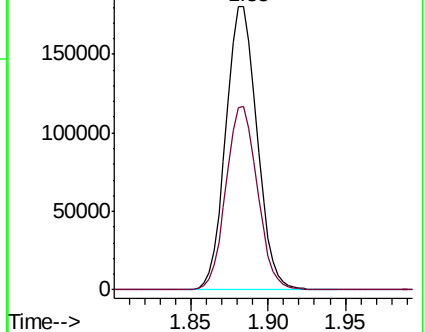
101 100

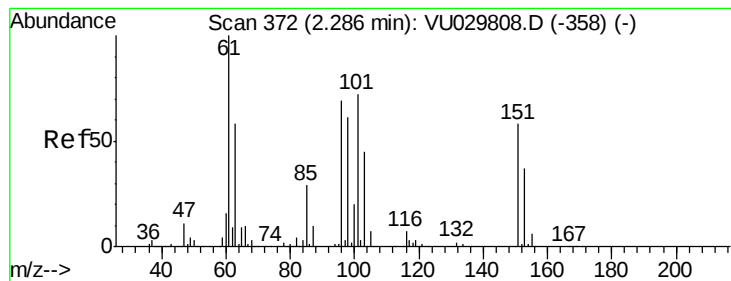
103 64.9 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VU029808.D (-236) (-)

Ion 103.00 (102.70 to 103.70): VU029808.D (-236) (-)





#10

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

Concen: 44.199 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

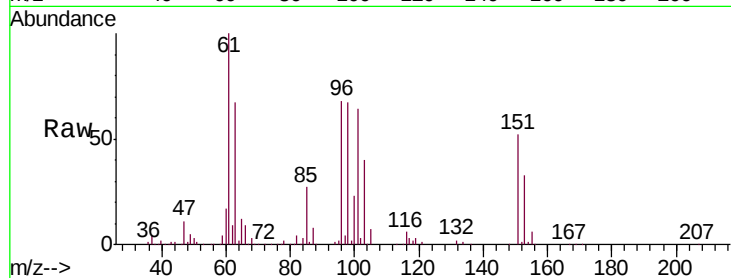
Tgt Ion: 101 Resp: 157071

Ion Ratio Lower Upper

101 100

85 40.4 33.0 49.6

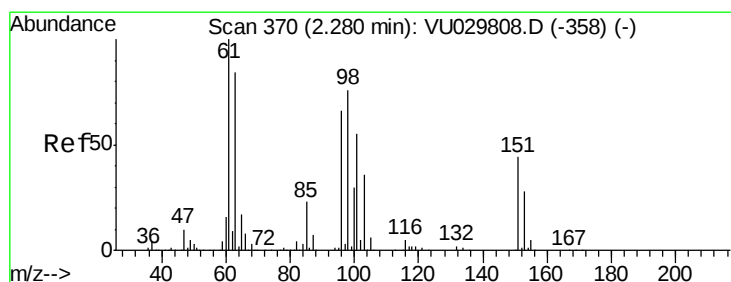
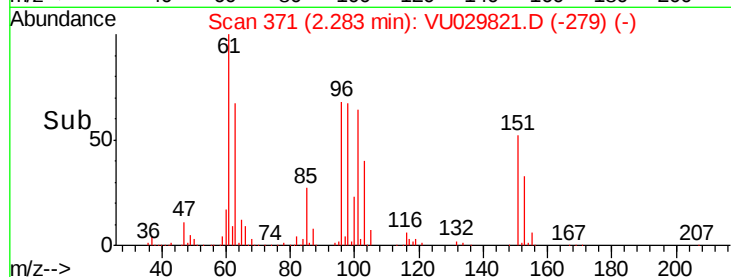
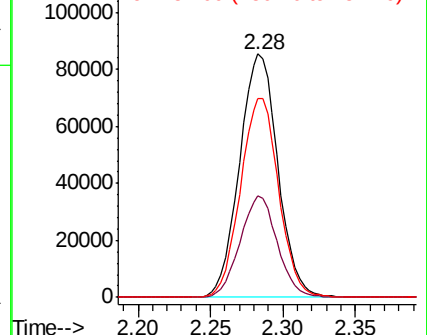
151 81.4 65.7 98.5



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: 43.092 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

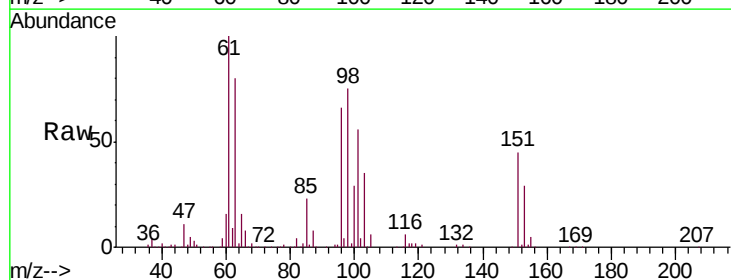
Tgt Ion: 96 Resp: 145584

Ion Ratio Lower Upper

96 100

61 151.6 114.0 211.8

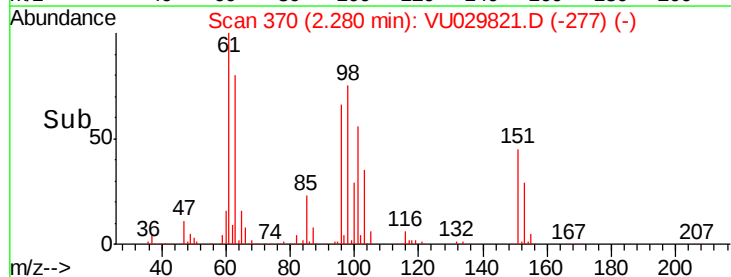
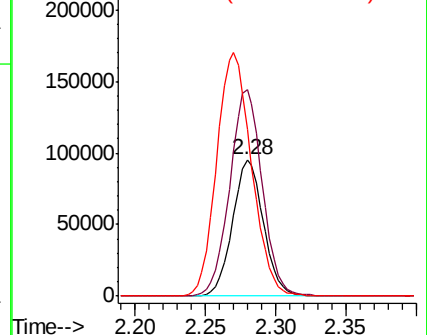
63 122.0 98.7 183.3

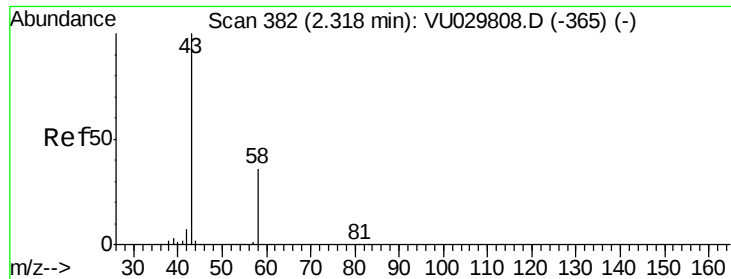


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 66.938 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

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Acq: 05 Mar 2019 14:36

Instrument :

MSVOA_U

ClientSampleId :

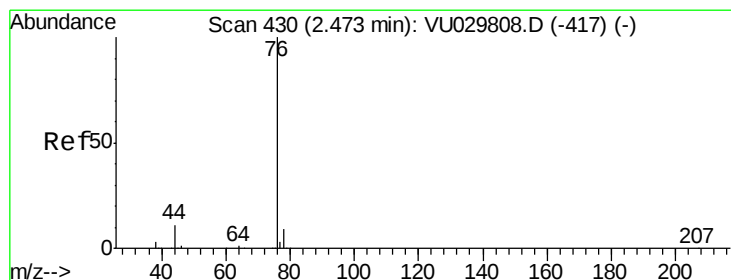
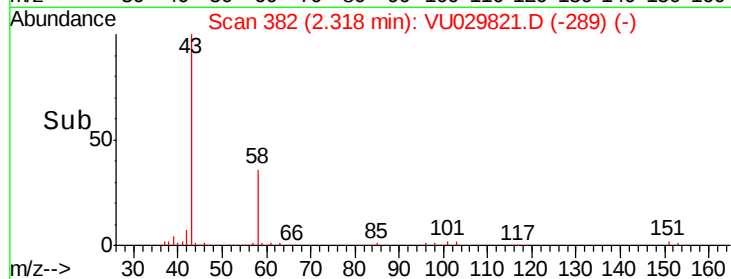
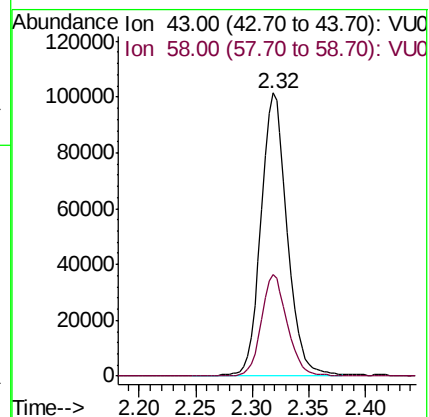
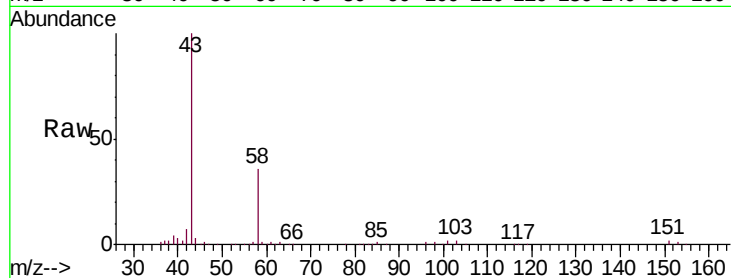
VSTD05050

Tgt Ion: 43 Resp: 162728

Ion Ratio Lower Upper

43 100

58 35.1 0.0 66.8



#14

Carbon disulfide

Concen: 47.841 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU029821.D

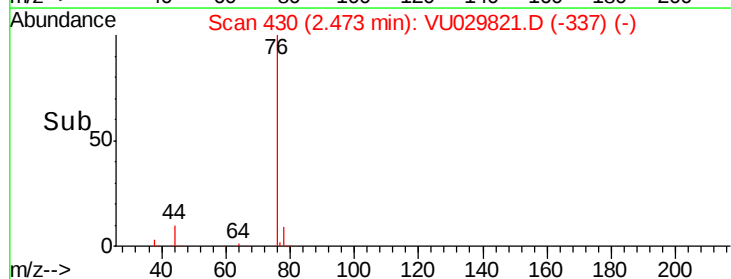
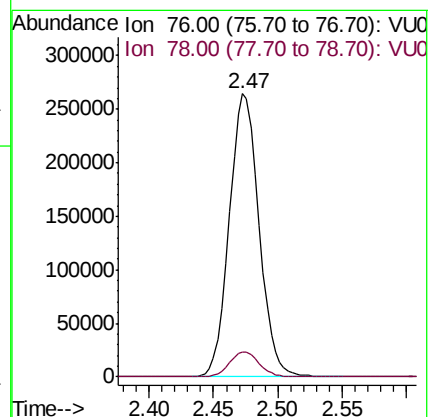
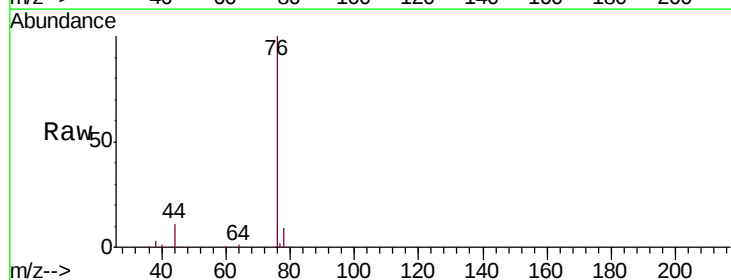
Acq: 05 Mar 2019 14:36

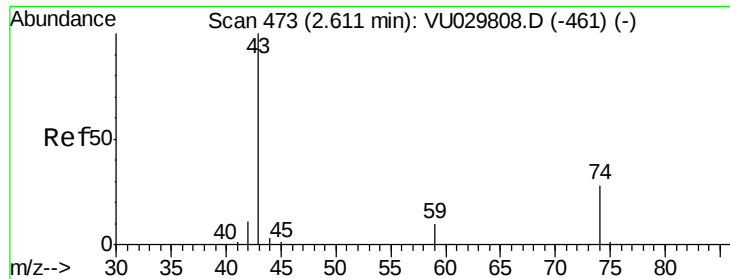
Tgt Ion: 76 Resp: 423306

Ion Ratio Lower Upper

76 100

78 8.9 7.4 11.2

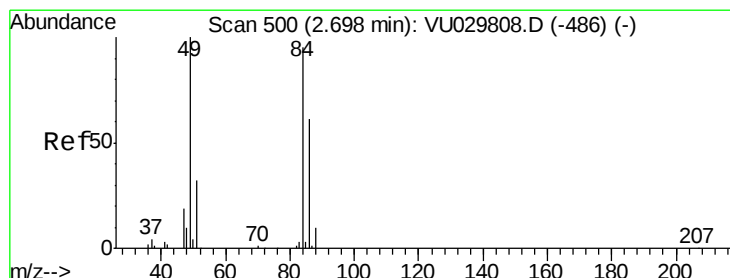
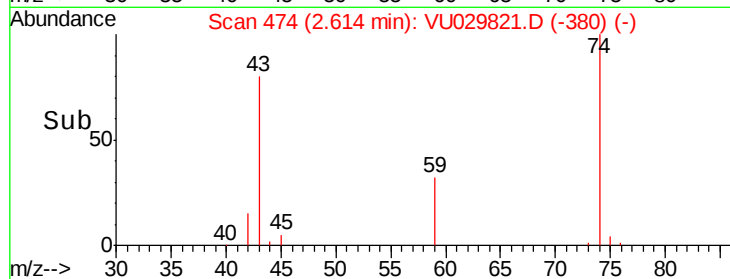
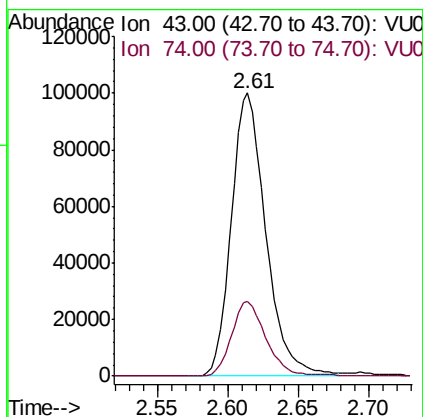
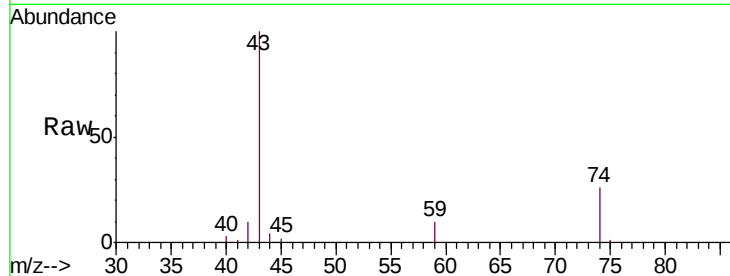




#15
Methyl Acetate
Concen: 54.039 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU029821.D
Acq: 05 Mar 2019 14:36

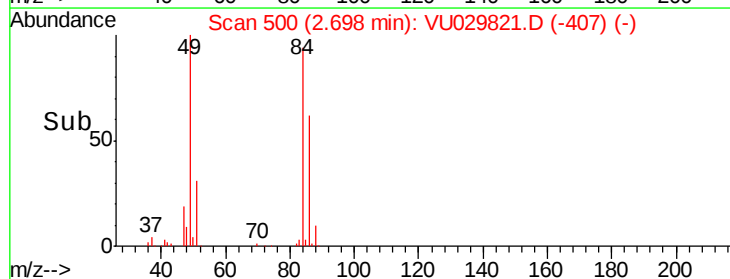
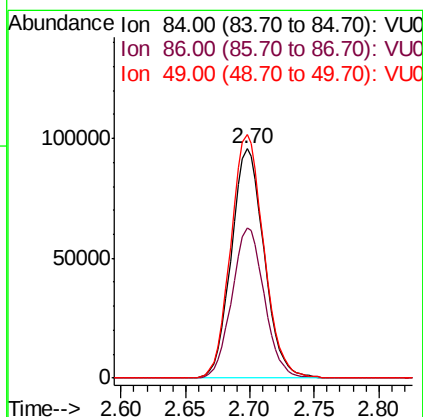
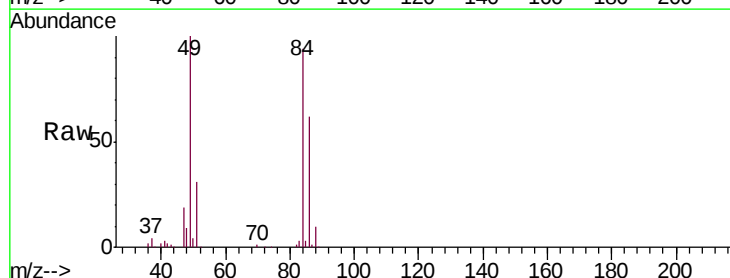
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

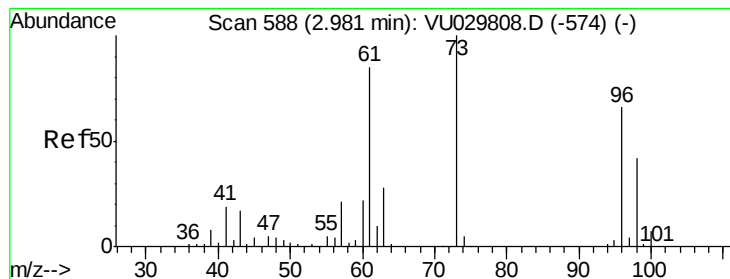
Tgt Ion: 43 Resp: 170514
Ion Ratio Lower Upper
43 100
74 26.6 21.5 32.3



#16
Methylene chloride
Concen: 51.870 ug/L
RT: 2.70 min Scan# 500
Delta R.T. -0.00 min
Lab File: VU029821.D
Acq: 05 Mar 2019 14:36

Tgt Ion: 84 Resp: 169570
Ion Ratio Lower Upper
84 100
86 65.7 45.8 85.0
49 106.3 75.1 139.5





#17

trans-1,2-Dichloroethene

Concen: 49.716 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

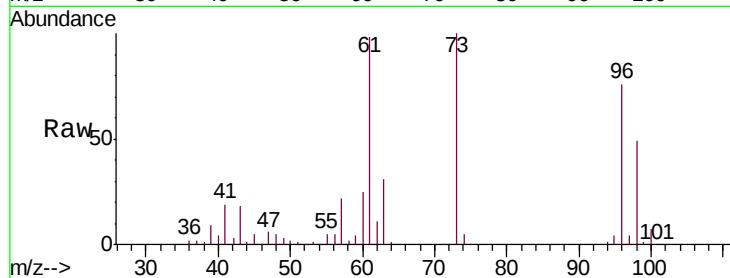
Tgt Ion: 96 Resp: 155027

Ion Ratio Lower Upper

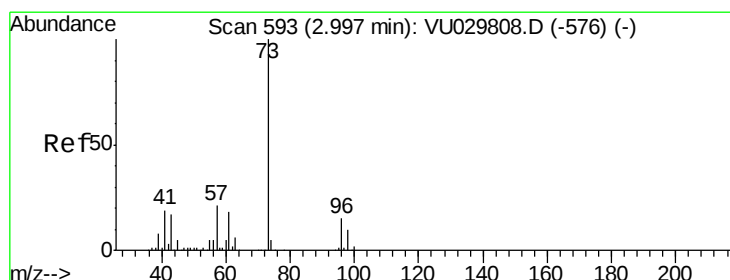
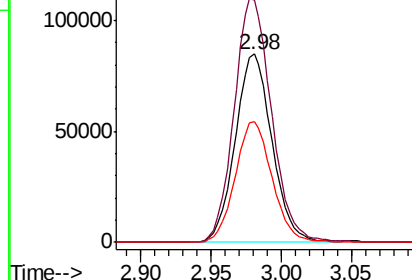
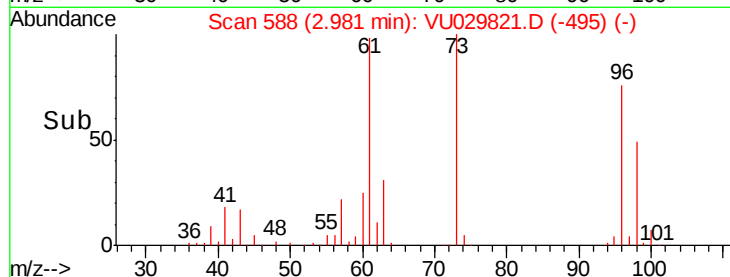
96 100

61 128.7 88.3 163.9

98 64.4 44.8 83.2



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



#18

Methyl tert-butyl Ether

Concen: 49.401 ug/L

RT: 3.00 min Scan# 593

Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

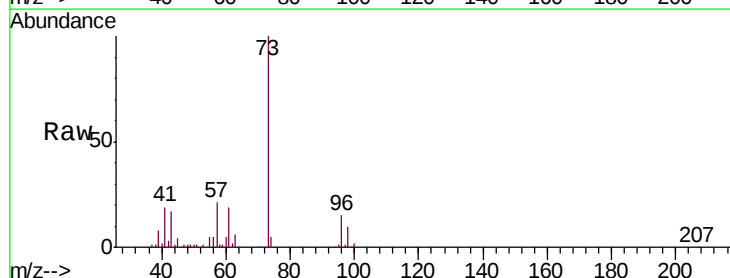
Tgt Ion: 73 Resp: 476920

Ion Ratio Lower Upper

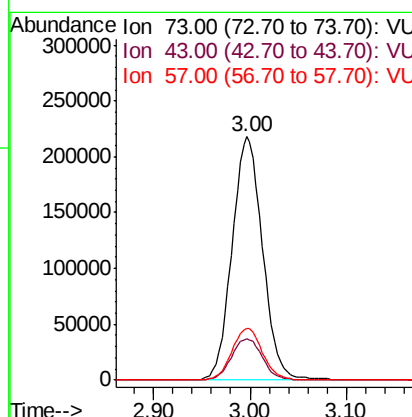
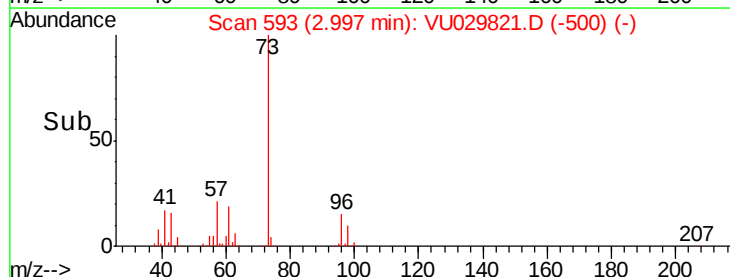
73 100

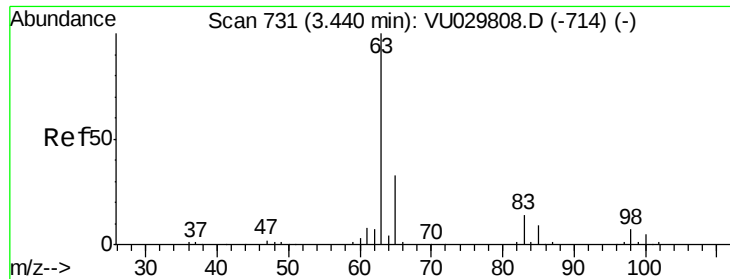
43 17.1 14.8 22.2

57 21.4 16.5 24.7



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

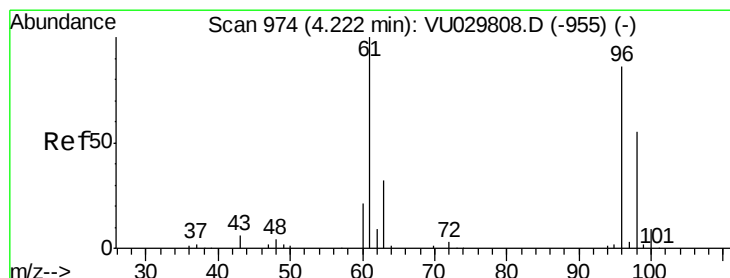
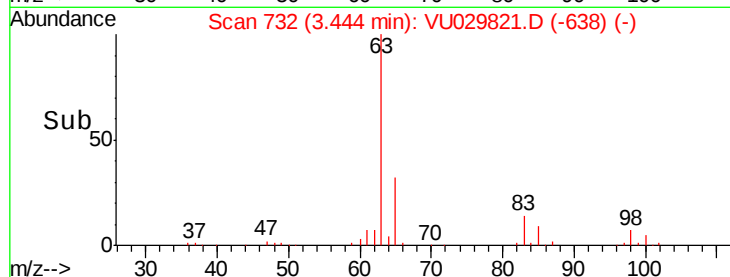
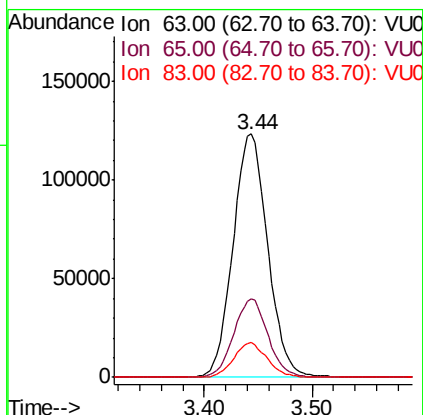
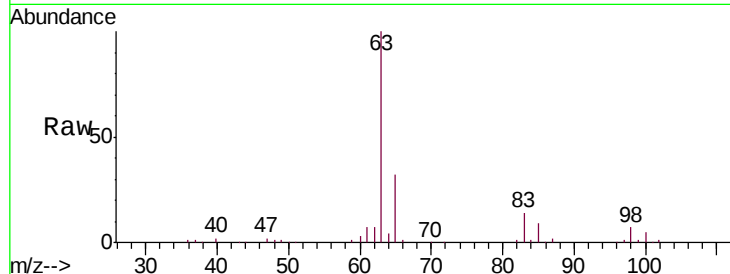




#19
 1,1-Dichloroethane
 Concen: 51.280 ug/L
 RT: 3.44 min Scan# 732
 Delta R.T. 0.00 min
 Lab File: VU029821.D
 Acq: 05 Mar 2019 14:36

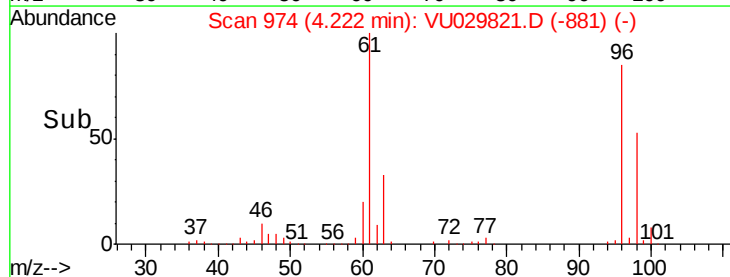
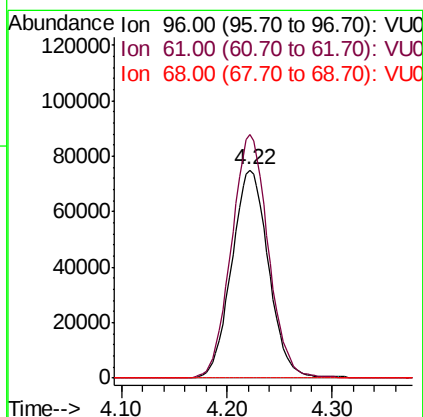
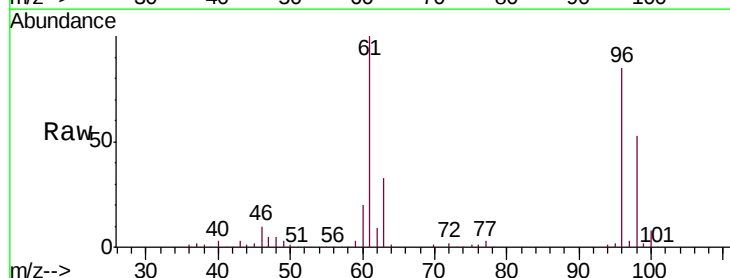
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

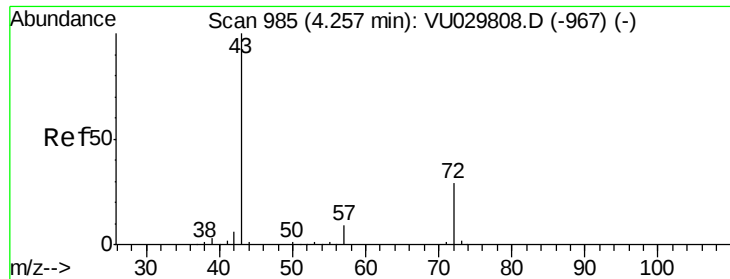
Tgt Ion: 63 Resp: 276498
 Ion Ratio Lower Upper
 63 100
 65 32.4 22.3 41.3
 83 14.4 9.9 18.3



#20
 cis-1,2-Dichloroethene
 Concen: 50.181 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. -0.00 min
 Lab File: VU029821.D
 Acq: 05 Mar 2019 14:36

Tgt Ion: 96 Resp: 181822
 Ion Ratio Lower Upper
 96 100
 61 117.1 83.9 155.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 89.935 ug/L

RT: 4.26 min Scan# 985

Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

Instrument :

MSVOA_U

ClientSampleId :

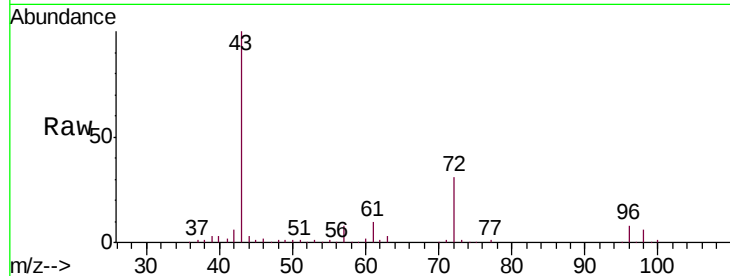
VSTD05050

Tgt Ion: 43 Resp: 249515

Ion Ratio Lower Upper

43 100

72 30.9 15.2 45.6



Abundance Ion 43.00 (42.70 to 43.70): VU029808.D (-967) (-)

Ion 72.00 (71.70 to 72.70): VU029808.D (-967) (-)

4.26

100000

80000

60000

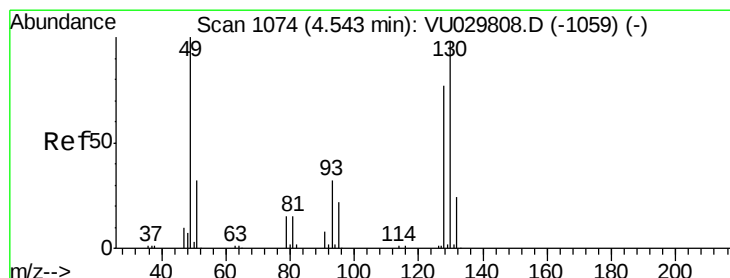
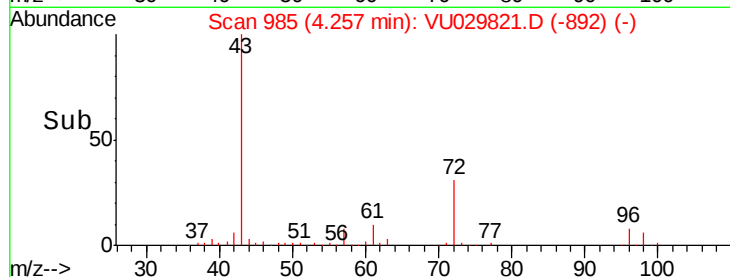
40000

20000

0

Time-->

4.20 4.30 4.40



#23

Bromochloromethane

Concen: 48.714 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

Tgt Ion: 128 Resp: 96760

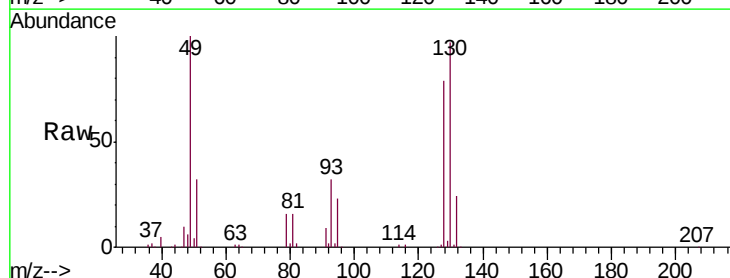
Ion Ratio Lower Upper

128 100

49 126.5 85.9 159.5

130 122.5 91.3 169.5

51 40.5 32.2 48.2



Abundance Ion 128.00 (127.70 to 128.70): VU029808.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU029808.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU029808.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU029808.D (-1059) (-)

80000

60000

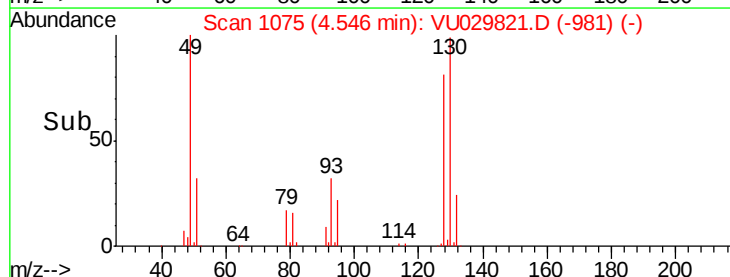
40000

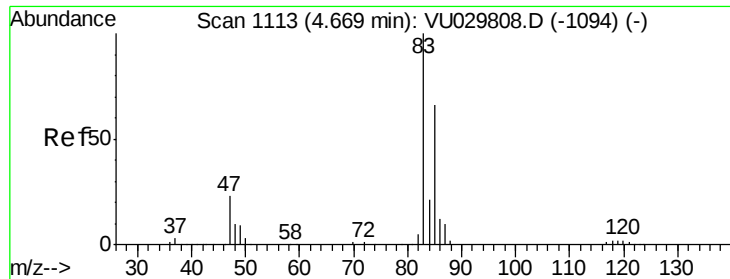
20000

0

Time-->

4.45 4.50 4.55 4.60 4.65

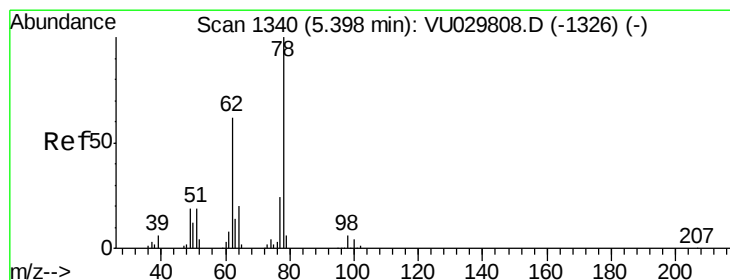
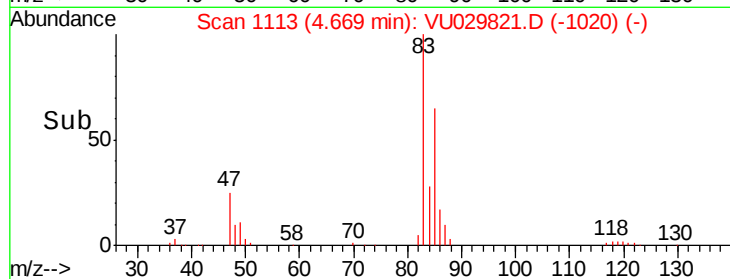
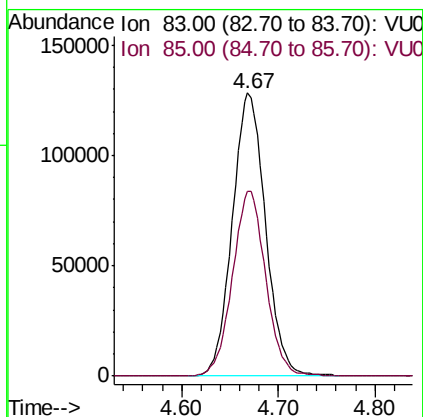
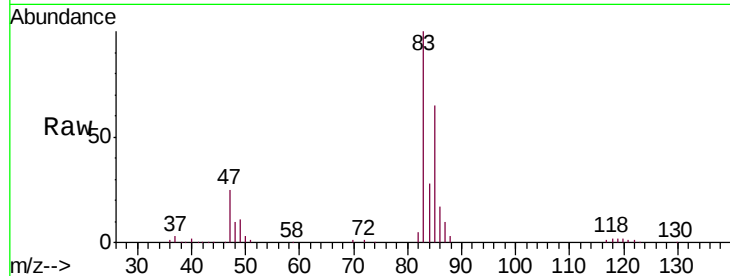




#25
Chloroform
Concen: 50.721 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU029821.D
Acq: 05 Mar 2019 14:36

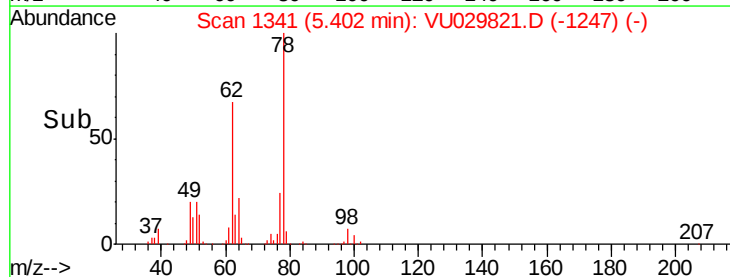
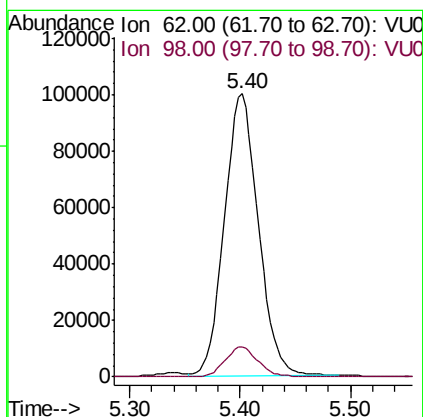
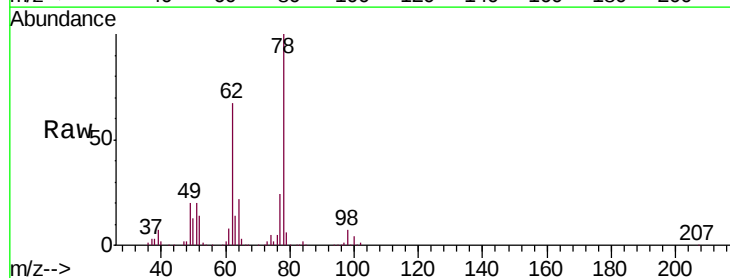
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

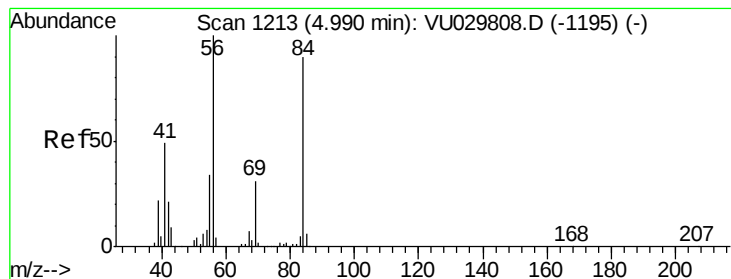
Tgt Ion: 83 Resp: 305136
Ion Ratio Lower Upper
83 100
85 65.1 45.4 84.2



#27
1,2-Dichloroethane
Concen: 46.111 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU029821.D
Acq: 05 Mar 2019 14:36

Tgt Ion: 62 Resp: 213278
Ion Ratio Lower Upper
62 100
98 10.7 7.8 11.8





#29

Cyclohexane

Concen: 48.192 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

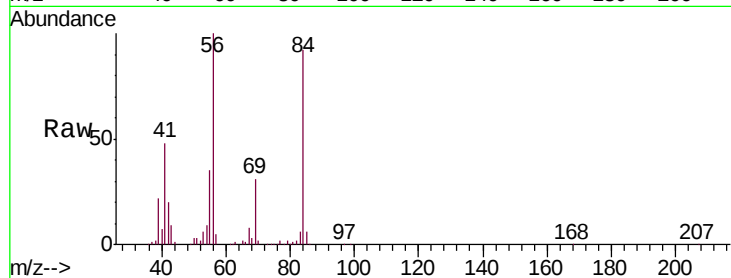
Tgt Ion: 56 Resp: 239886

Ion Ratio Lower Upper

56 100

69 31.9 25.7 38.5

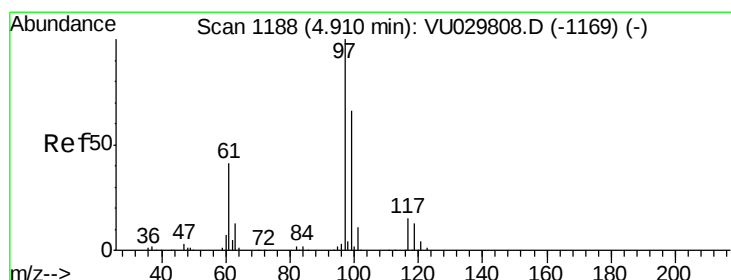
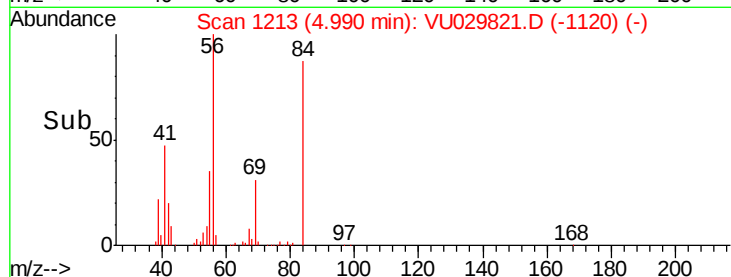
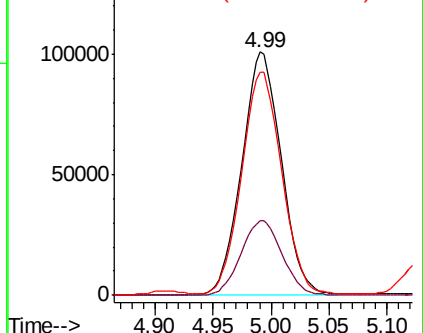
84 91.8 77.1 115.7



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#30

1,1,1-Trichloroethane

Concen: 46.680 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

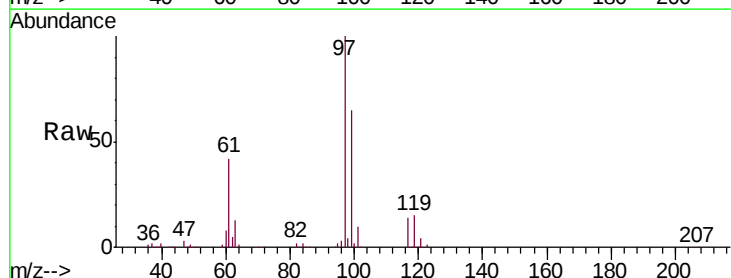
Tgt Ion: 97 Resp: 248954

Ion Ratio Lower Upper

97 100

99 64.8 51.4 77.0

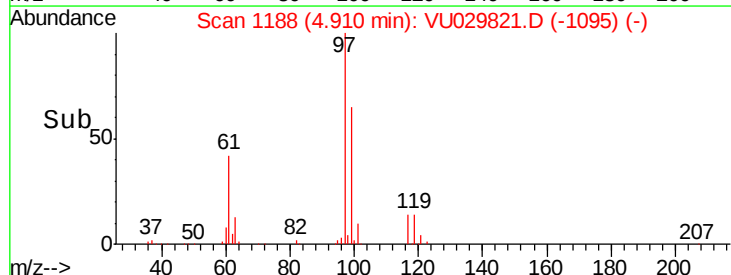
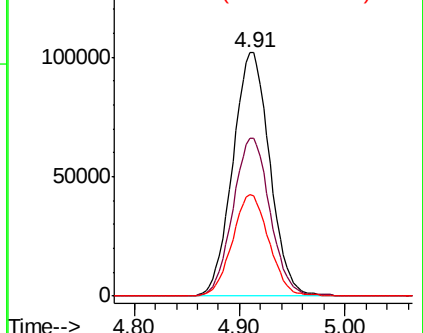
61 41.0 32.3 48.5

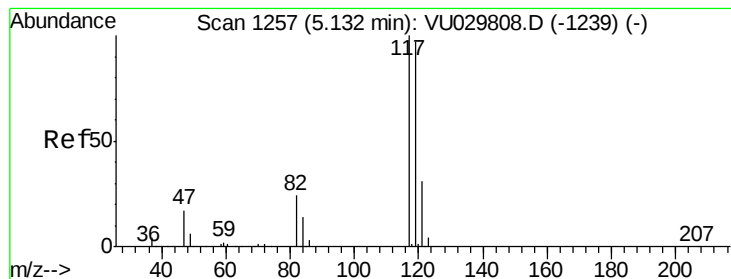


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 44.953 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

Instrument :

MSVOA_U

ClientSampleId :

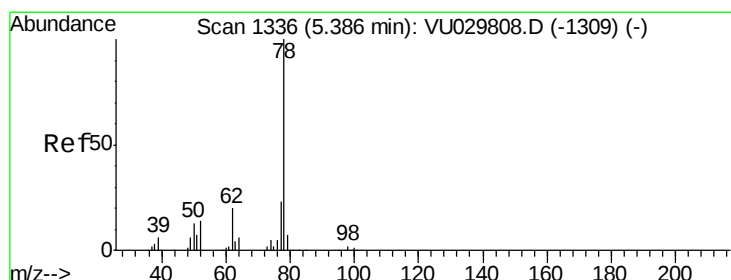
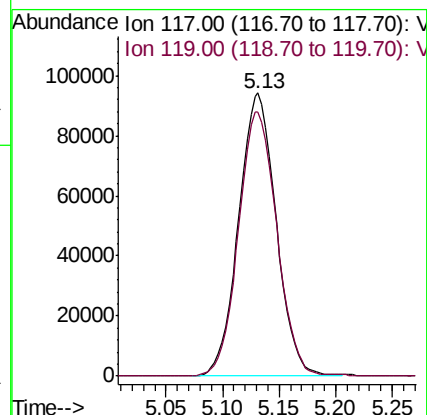
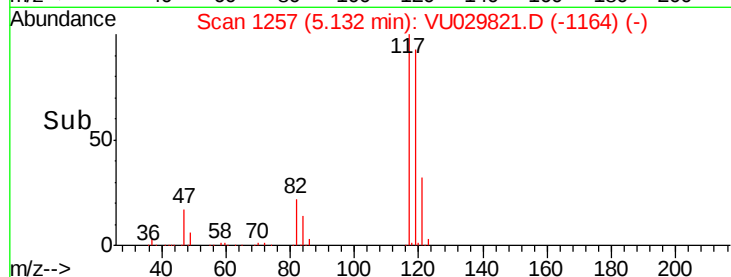
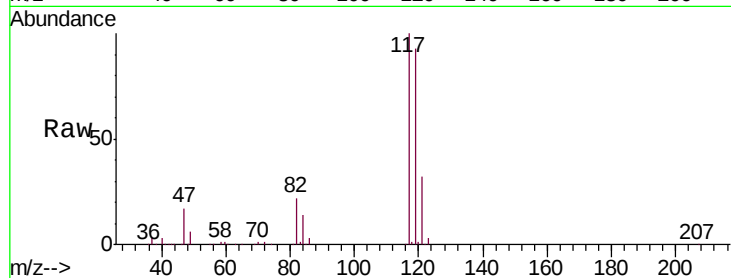
VSTD05050

Tgt Ion:117 Resp: 216993

Ion Ratio Lower Upper

117 100

119 95.5 77.8 116.8



#33

Benzene

Concen: 50.187 ug/L

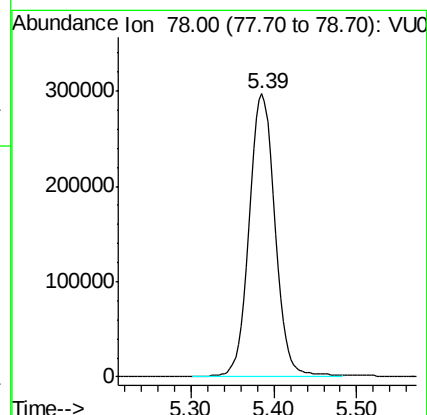
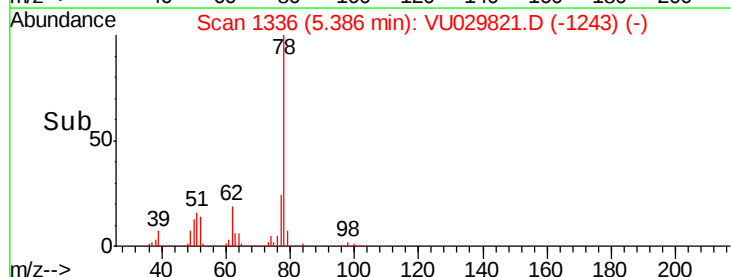
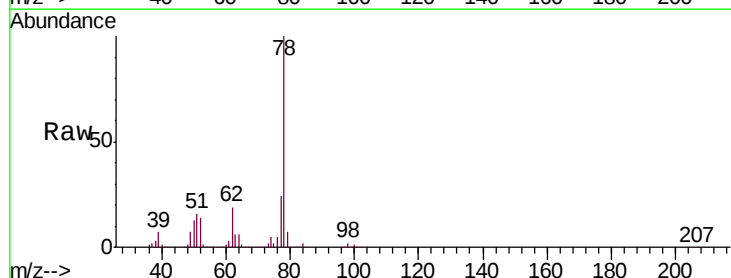
RT: 5.39 min Scan# 1336

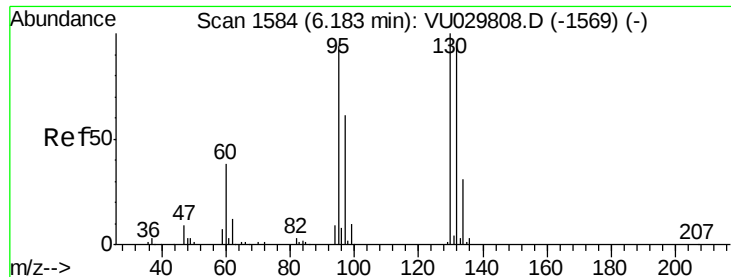
Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

Tgt Ion: 78 Resp: 647208

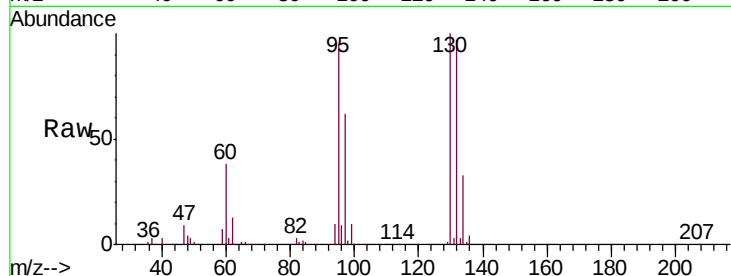




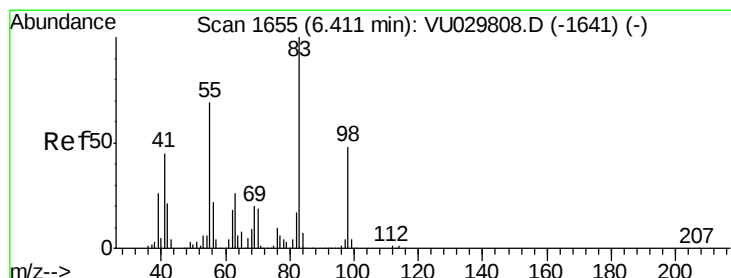
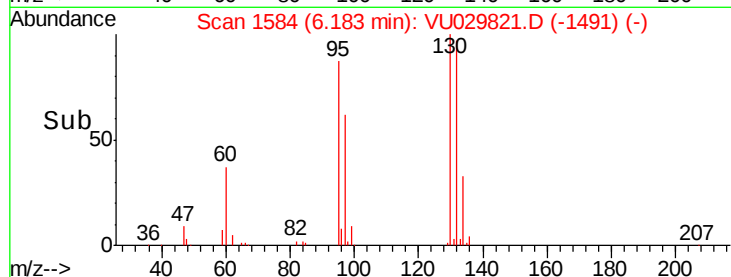
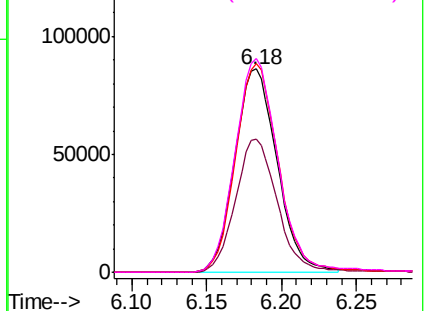
#34
 Trichloroethene
 Concen: 48.856 ug/L
 RT: 6.18 min Scan# 1584
 Delta R.T. -0.00 min
 Lab File: VU029821.D
 Acq: 05 Mar 2019 14:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tgt Ion:	95	Resp:	169728
Ion	Ratio	Lower	Upper
95	100		
97	65.5	44.6	82.8
132	102.4	74.6	138.6
130	105.0	77.2	143.4

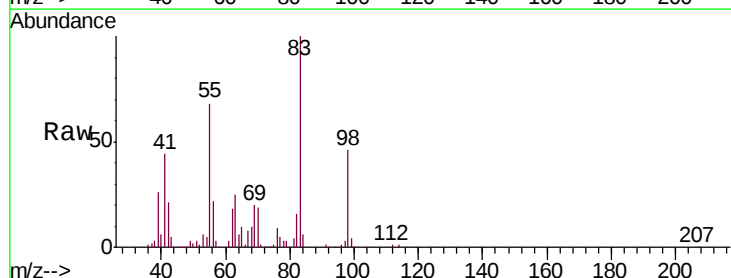


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

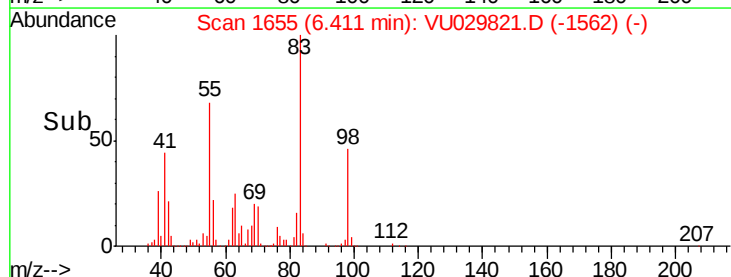
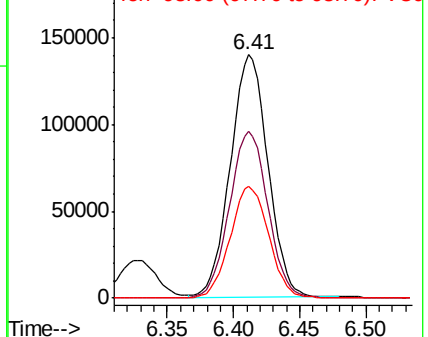


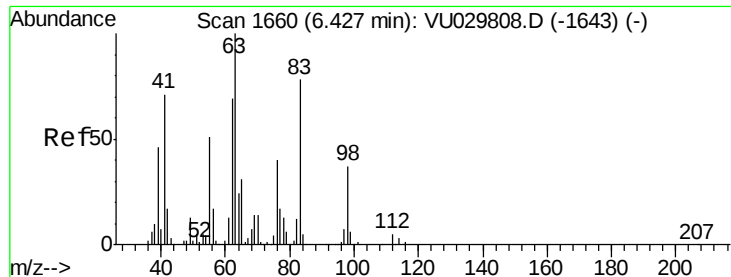
#35
 Methylcyclohexane
 Concen: 47.878 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU029821.D
 Acq: 05 Mar 2019 14:36

Tgt Ion:	83	Resp:	276224
Ion	Ratio	Lower	Upper
83	100		
55	70.3	55.2	82.8
98	47.3	39.4	59.2



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

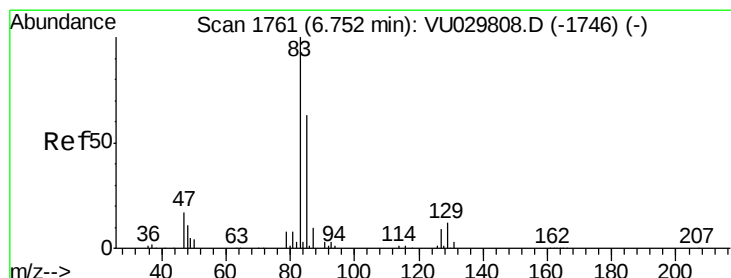
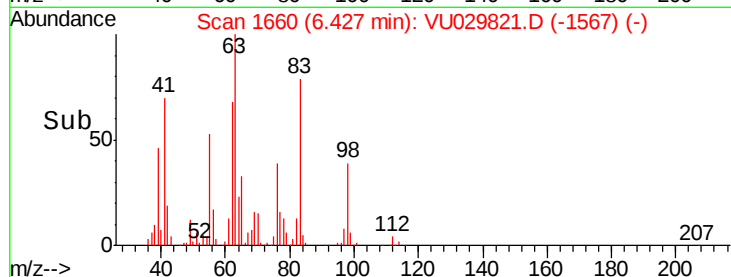
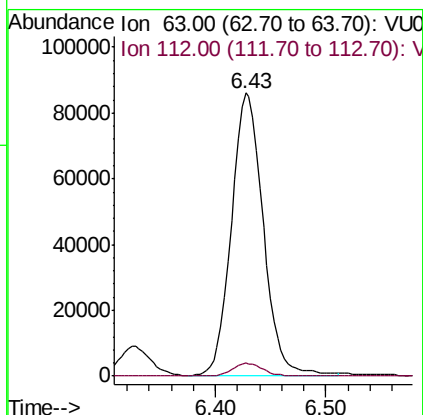
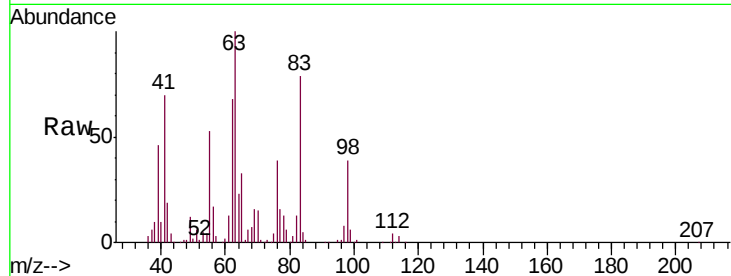




#37
 1,2-Dichloropropane
 Concen: 50.518 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU029821.D
 Acq: 05 Mar 2019 14:36

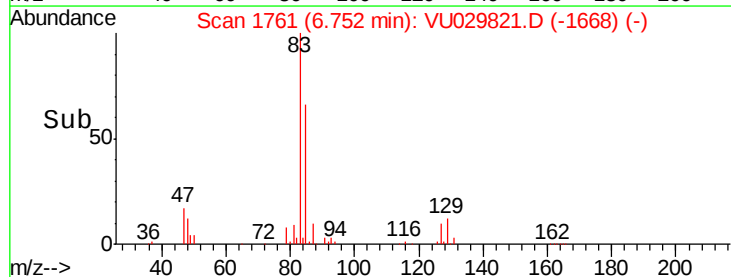
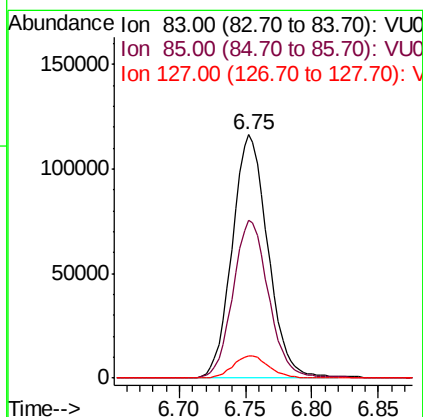
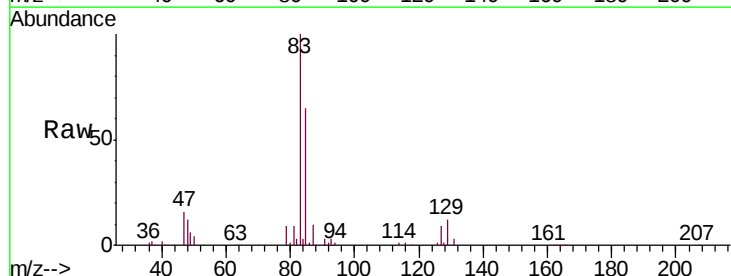
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

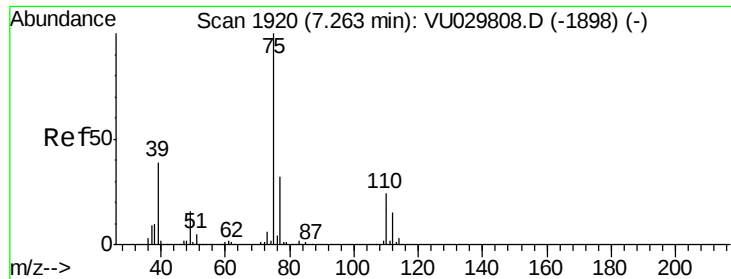
Tgt Ion: 63 Resp: 171016
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.6 5.4



#38
 Bromodichloromethane
 Concen: 47.677 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU029821.D
 Acq: 05 Mar 2019 14:36

Tgt Ion: 83 Resp: 217589
 Ion Ratio Lower Upper
 83 100
 85 64.8 44.2 82.0
 127 9.4 8.3 12.5

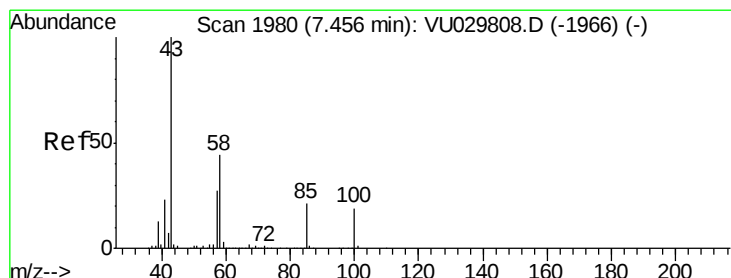
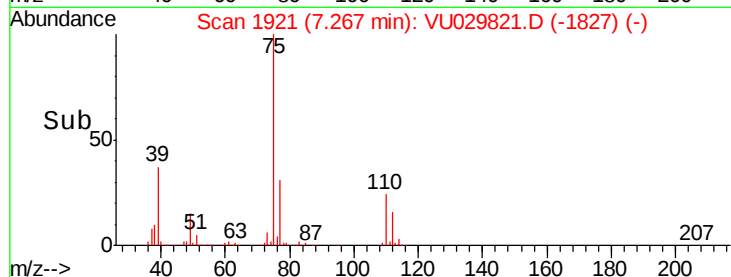
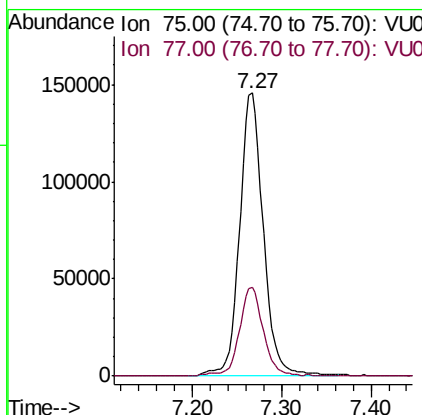
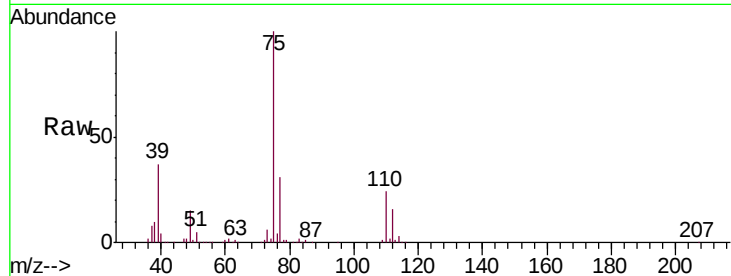




#39
 cis-1,3-Dichloropropene
 Concen: 49.301 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU029821.D
 Acq: 05 Mar 2019 14:36

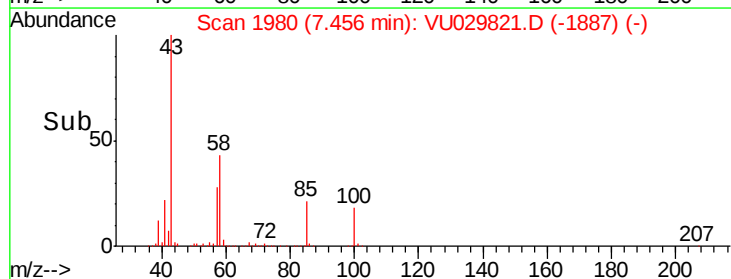
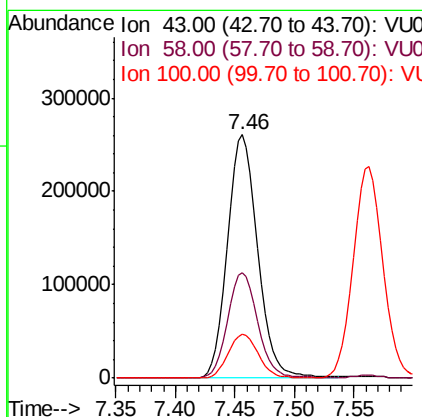
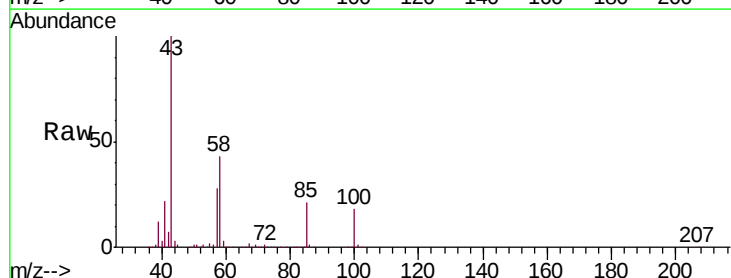
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

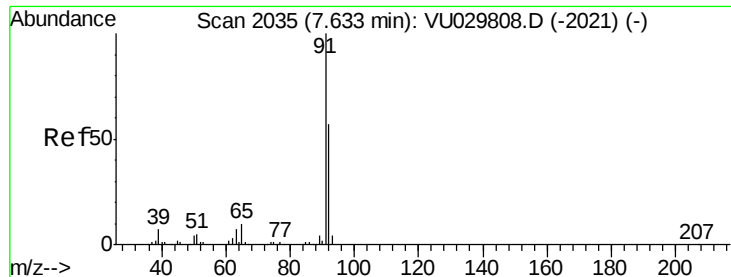
Tgt Ion: 75 Resp: 269269
 Ion Ratio Lower Upper
 75 100
 77 31.4 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 96.600 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. -0.00 min
 Lab File: VU029821.D
 Acq: 05 Mar 2019 14:36

Tgt Ion: 43 Resp: 459853
 Ion Ratio Lower Upper
 43 100
 58 43.4 33.0 49.4
 100 18.1 14.5 21.7





#42

Toluene

Concen: 47.617 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

Instrument :

MSVOA_U

ClientSampleId :

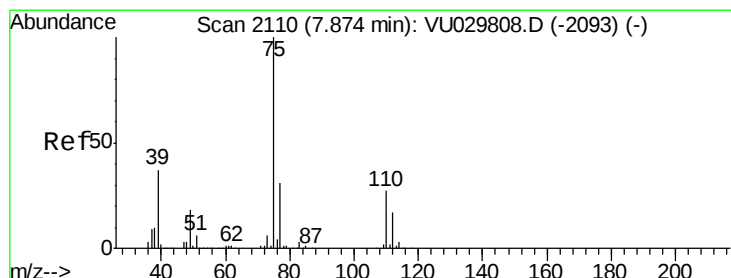
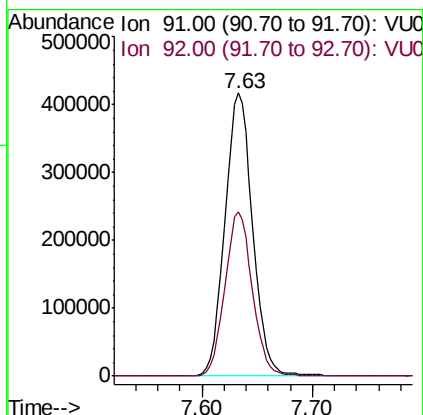
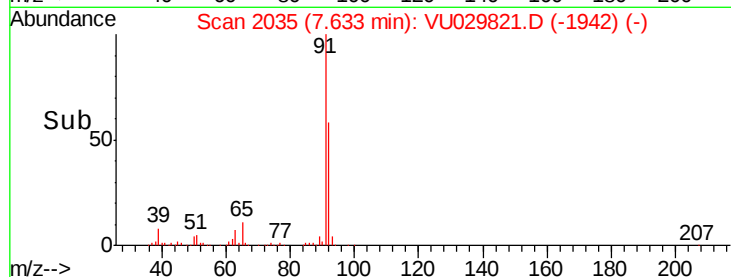
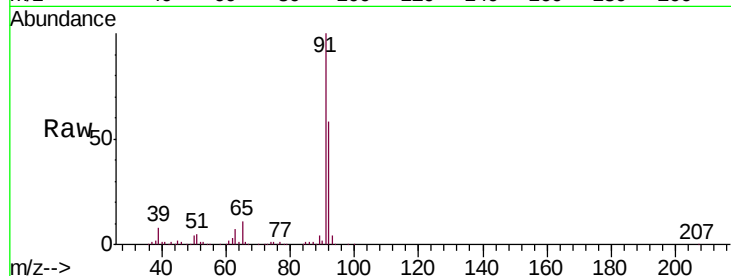
VSTD05050

Tgt Ion: 91 Resp: 726187

Ion Ratio Lower Upper

91 100

92 58.0 40.8 75.8



#44

trans-1,3-Dichloropropene

Concen: 46.900 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU029821.D

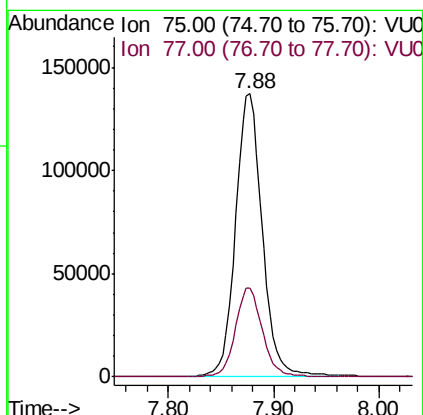
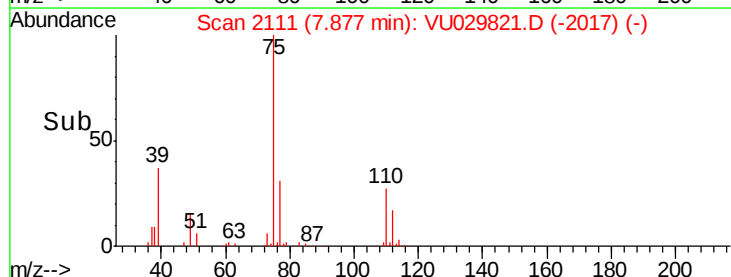
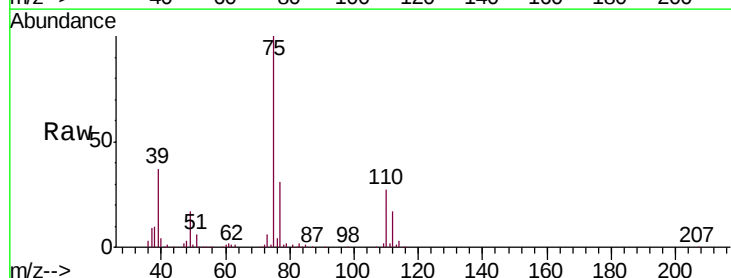
Acq: 05 Mar 2019 14:36

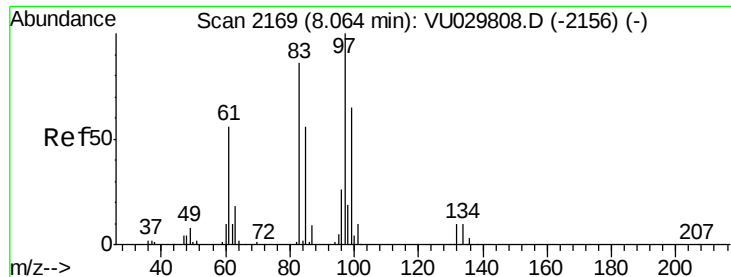
Tgt Ion: 75 Resp: 241411

Ion Ratio Lower Upper

75 100

77 31.4 22.1 41.1

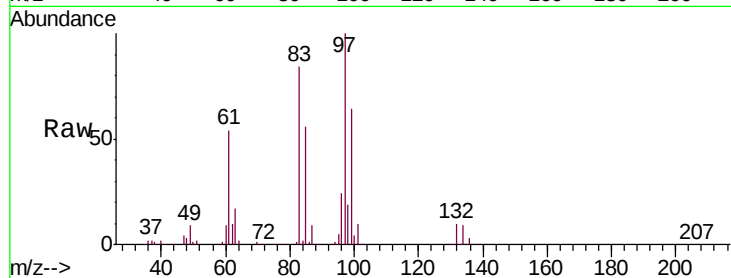




#45
 1,1,2-Trichloroethane
 Concen: 48.839 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU029821.D
 Acq: 05 Mar 2019 14:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tgt Ion:	97	Resp:	176224
Ion	Ratio	Lower	Upper
97	100		
99	64.2	43.8	81.3
83	84.0	57.7	107.1
85	55.7	38.5	71.5



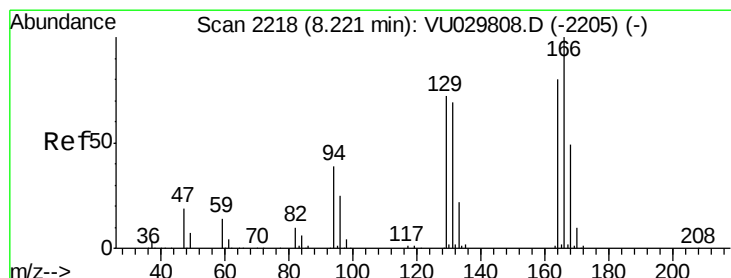
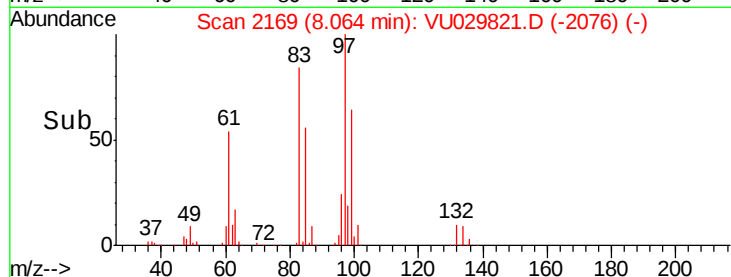
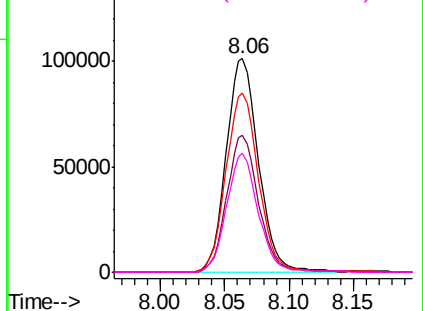
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

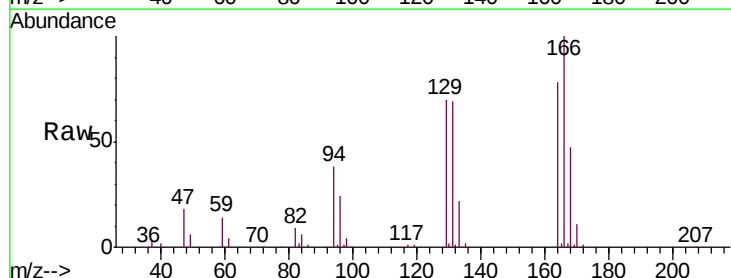
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 45.110 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU029821.D
 Acq: 05 Mar 2019 14:36

Tgt Ion:	164	Resp:	153389
Ion	Ratio	Lower	Upper
164	100		
129	89.2	62.1	115.3
131	88.0	60.1	111.5
166	127.5	89.7	166.5



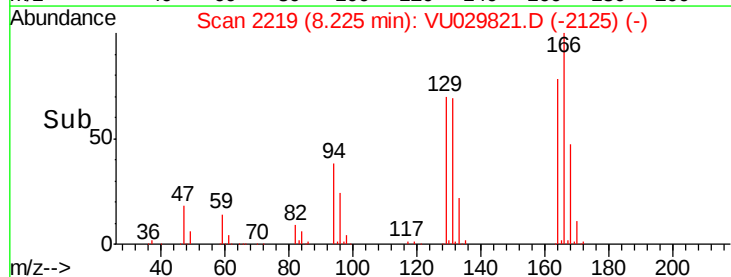
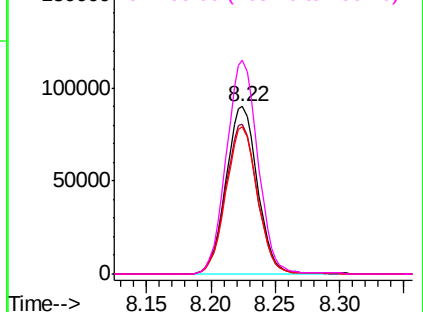
Abundance

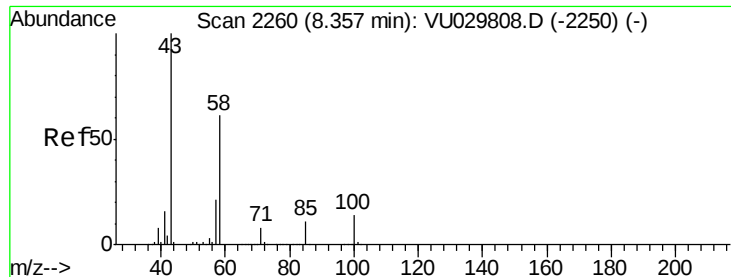
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

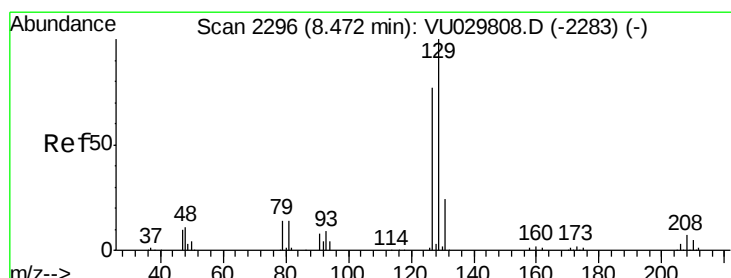
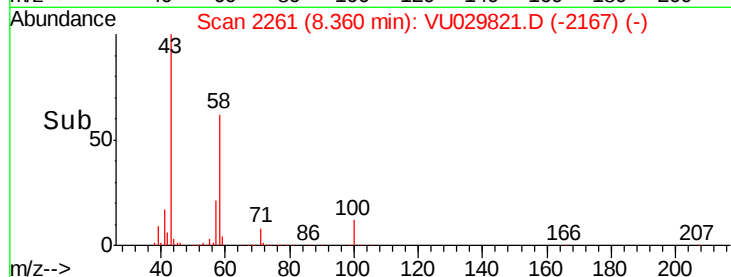
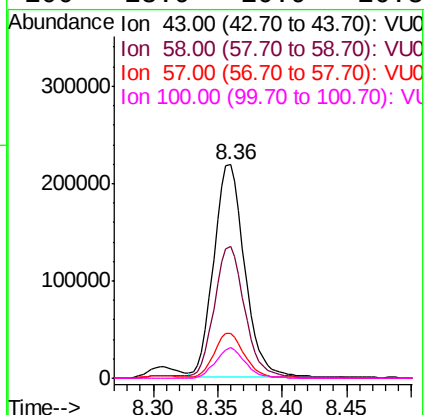
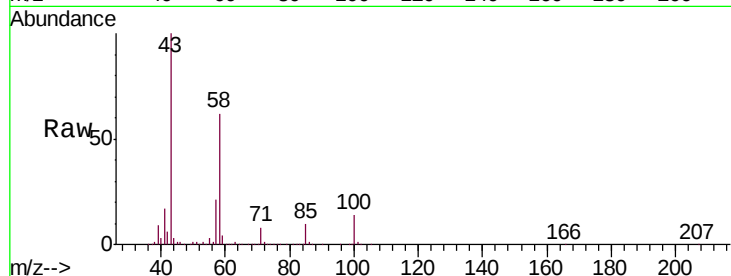




#48
2-Hexanone
Concen: 87.772 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU029821.D
Acq: 05 Mar 2019 14:36

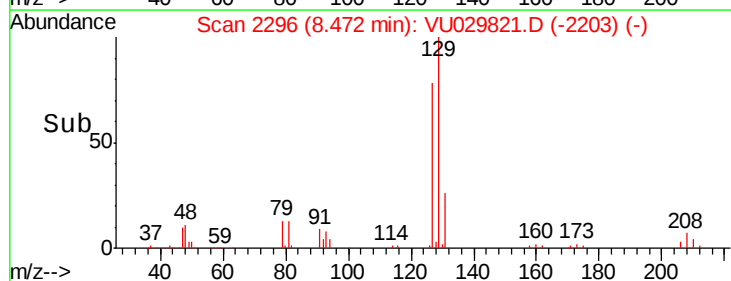
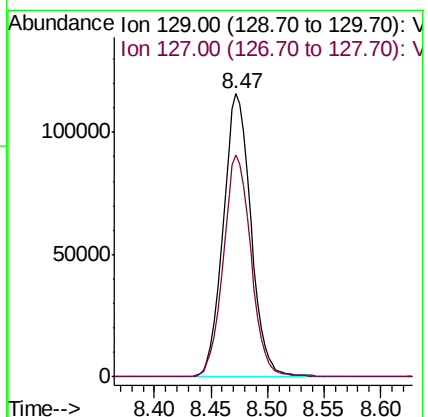
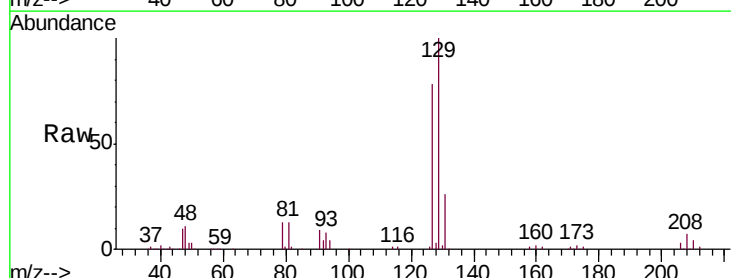
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

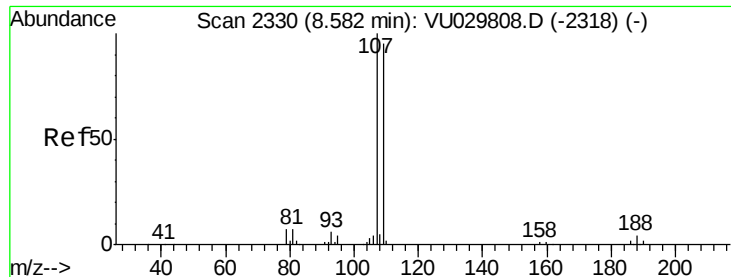
Tgt Ion:	43	Resp:	365007
Ion	Ratio	Lower	Upper
43	100		
58	60.5	46.4	69.6
57	20.8	15.7	23.5
100	13.9	10.9	16.3



#49
Dibromochloromethane
Concen: 45.163 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU029821.D
Acq: 05 Mar 2019 14:36

Tgt Ion:	129	Resp:	197558
Ion	Ratio	Lower	Upper
129	100		
127	78.4	54.4	101.0

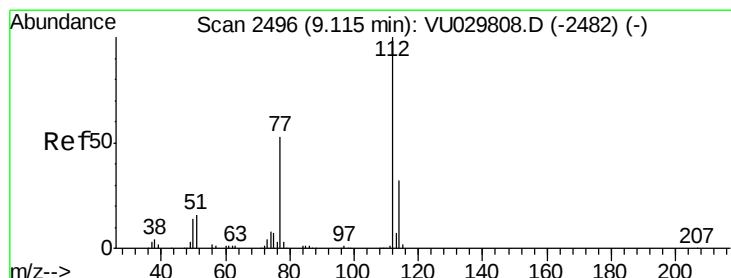
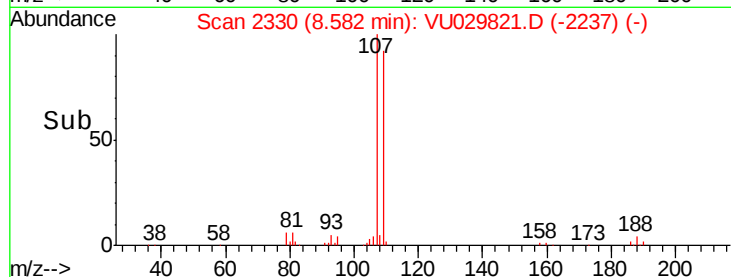
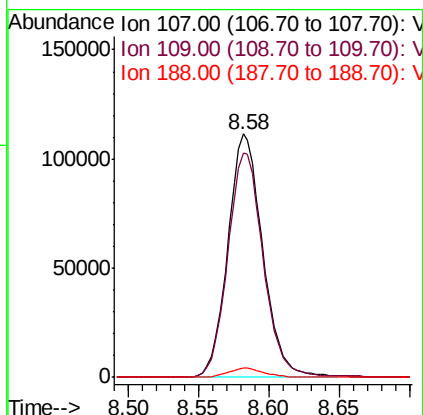
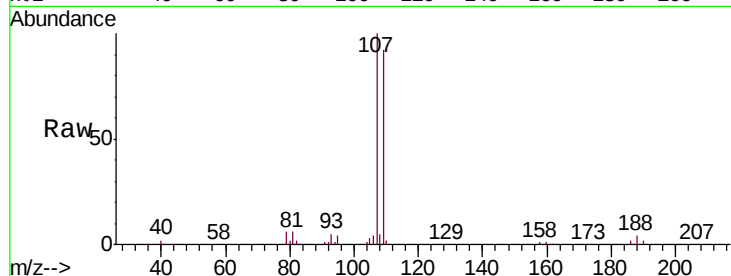




#50
 1,2-Dibromoethane
 Concen: 48.177 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. -0.00 min
 Lab File: VU029821.D
 Acq: 05 Mar 2019 14:36

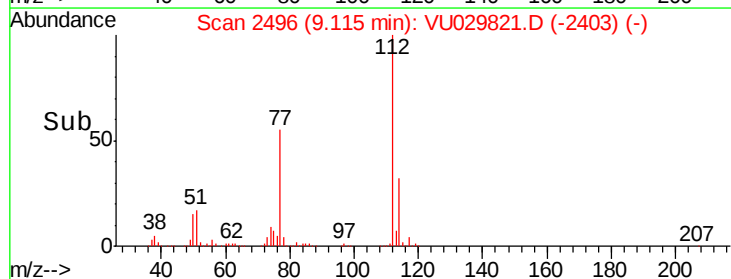
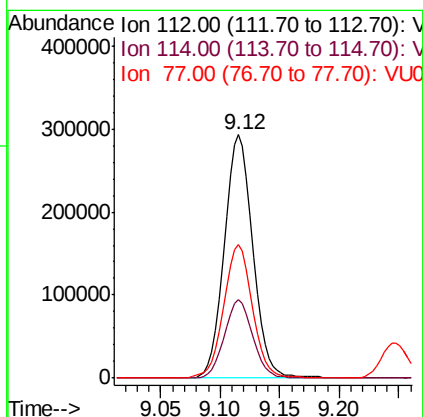
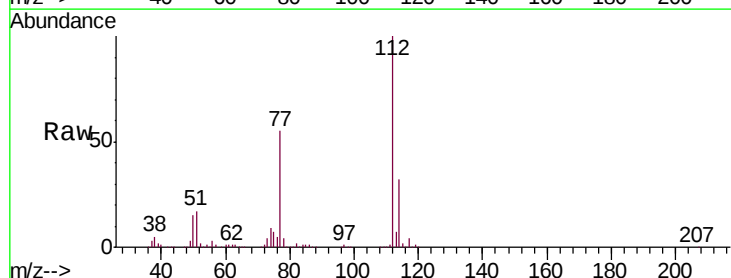
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

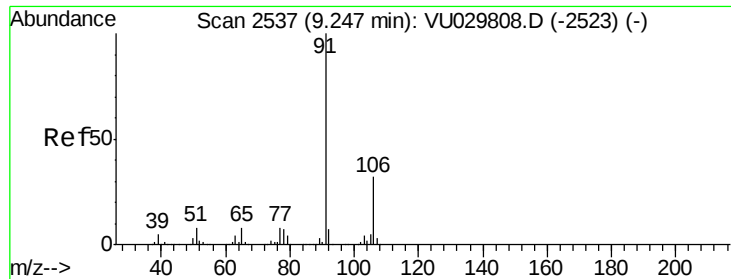
Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.2	66.4	123.4
188	3.9	3.5	5.3



#51
 Chlorobenzene
 Concen: 46.489 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. -0.00 min
 Lab File: VU029821.D
 Acq: 05 Mar 2019 14:36

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.4	22.7	42.1
77	55.0	42.1	63.1





#52

Ethylbenzene

Concen: 46.532 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

Instrument :

MSVOA_U

ClientSampleId :

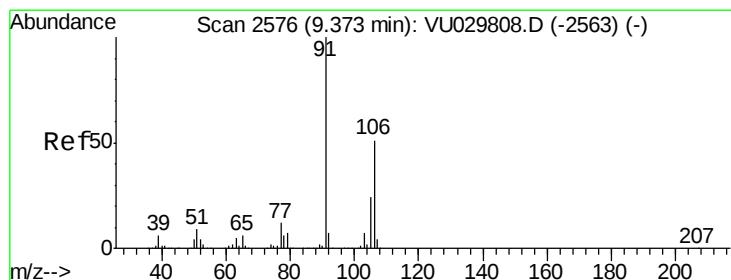
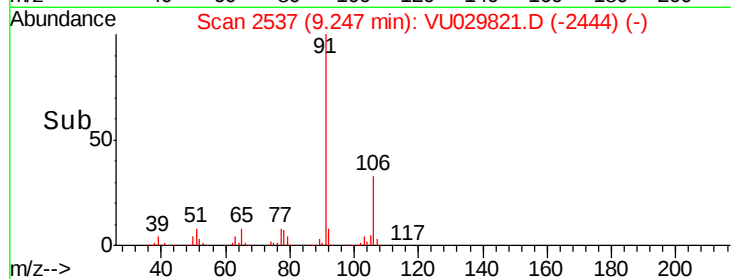
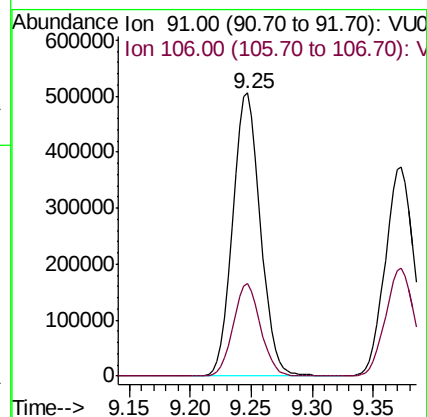
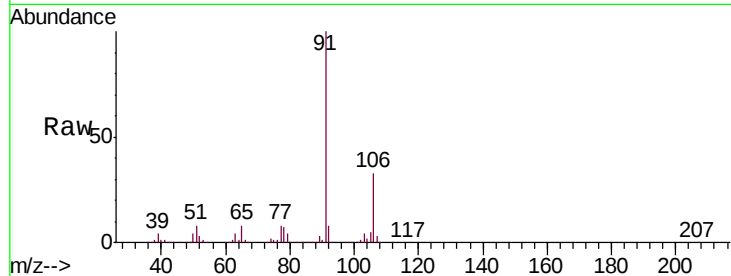
VSTD05050

Tgt Ion: 91 Resp: 805967

Ion Ratio Lower Upper

91 100

106 32.6 22.7 42.1



#53

m,p-Xylene

Concen: 45.814 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU029821.D

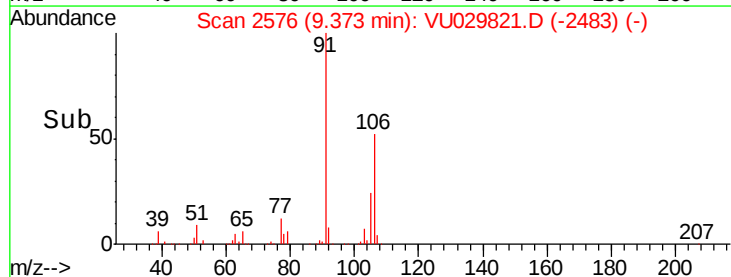
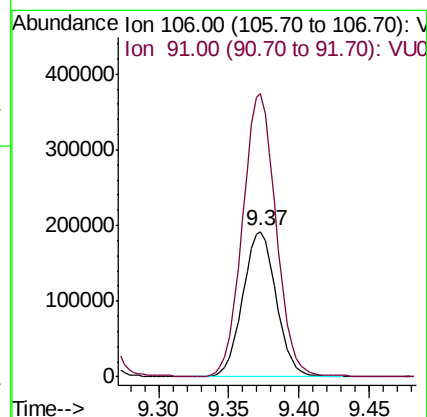
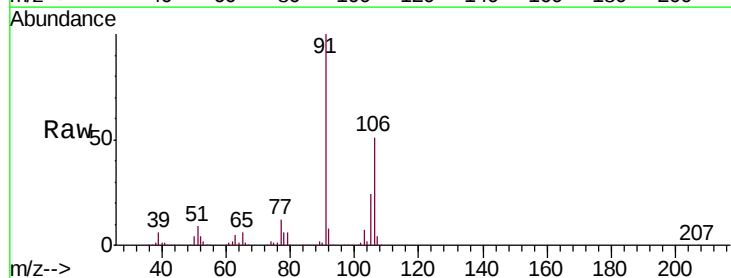
Acq: 05 Mar 2019 14:36

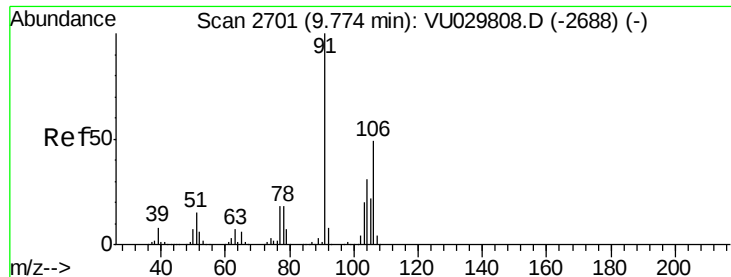
Tgt Ion: 106 Resp: 318536

Ion Ratio Lower Upper

106 100

91 194.2 135.3 251.3





#54

o-xylene

Concen: 45.170 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

Instrument :

MSVOA_U

ClientSampleId :

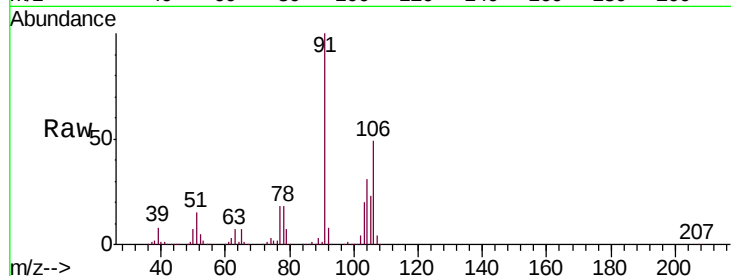
VSTD05050

Tgt Ion:106 Resp: 315468

Ion Ratio Lower Upper

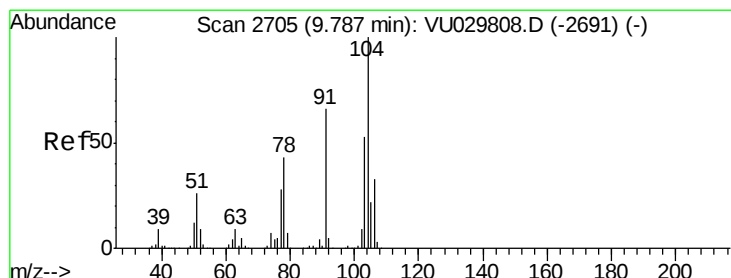
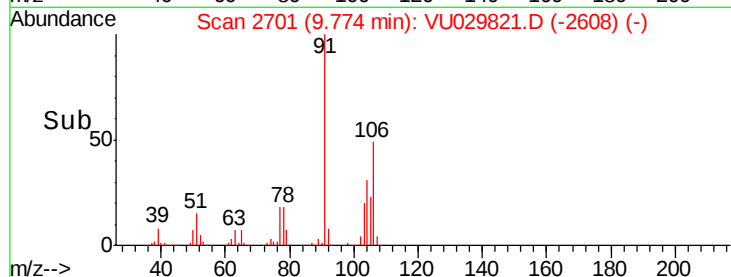
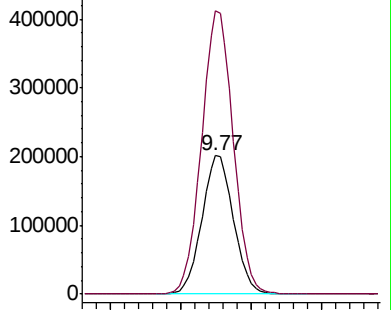
106 100

91 204.1 144.5 268.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 45.928 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU029821.D

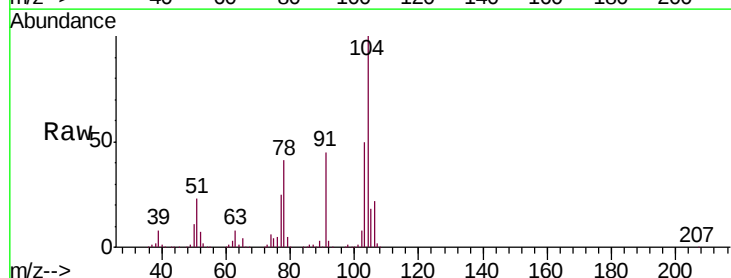
Acq: 05 Mar 2019 14:36

Tgt Ion:104 Resp: 541482

Ion Ratio Lower Upper

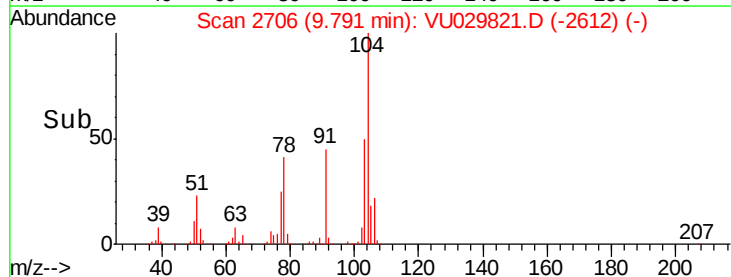
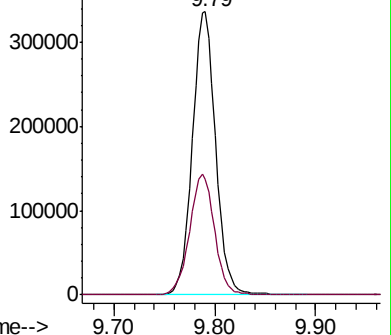
104 100

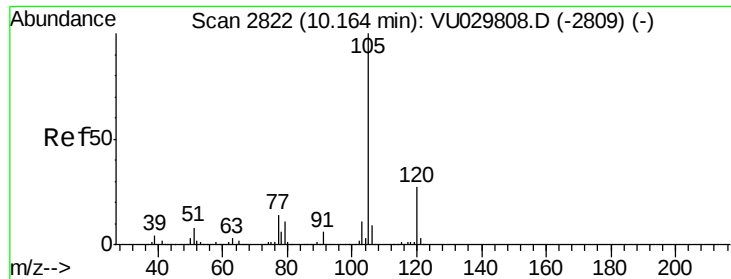
78 40.8 31.3 58.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 45.025 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

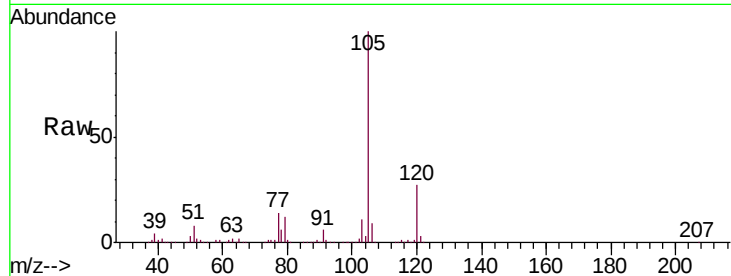
Tgt Ion:105 Resp: 822846

Ion Ratio Lower Upper

105 100

120 27.1 21.9 32.9

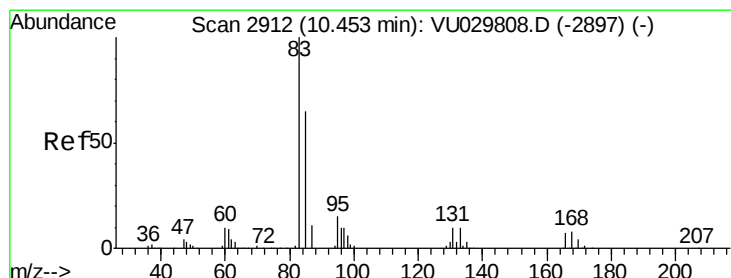
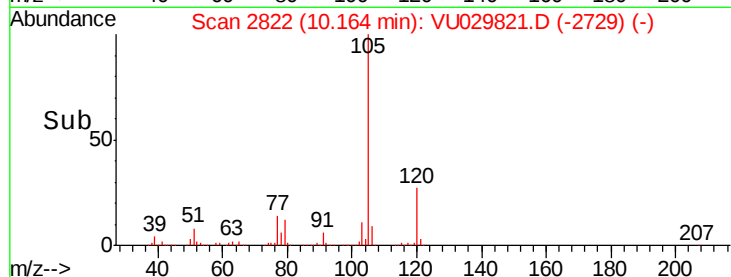
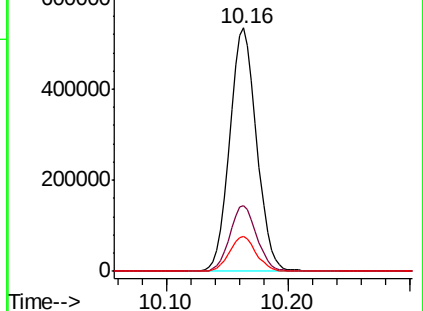
77 14.2 11.7 17.5



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: 47.716 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

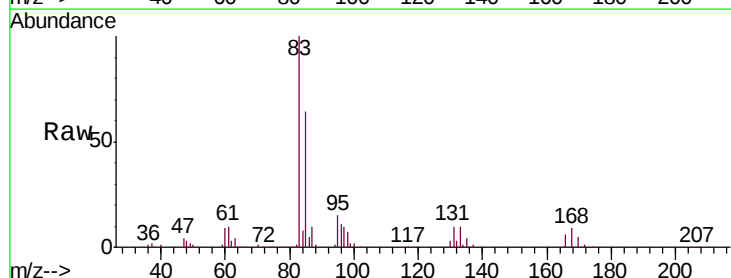
Tgt Ion: 83 Resp: 304455

Ion Ratio Lower Upper

83 100

85 64.3 45.5 84.5

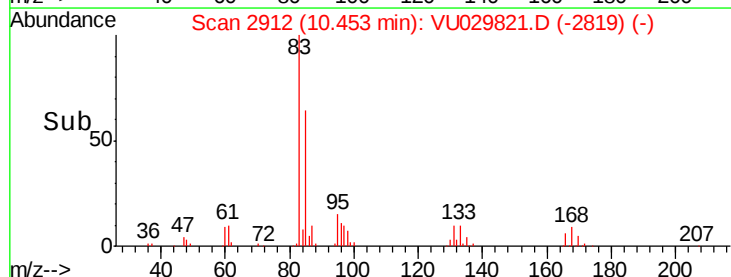
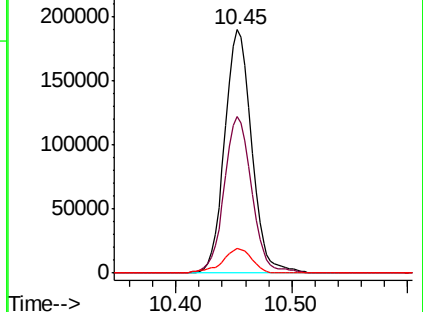
131 10.0 8.6 12.8

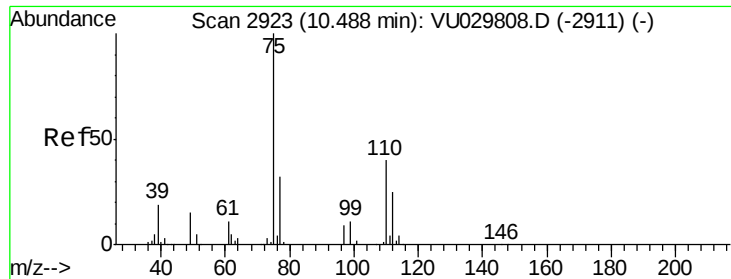


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

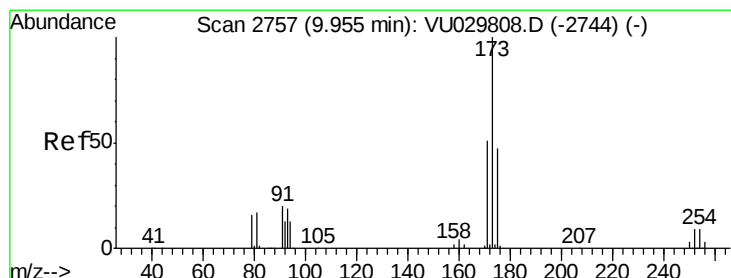
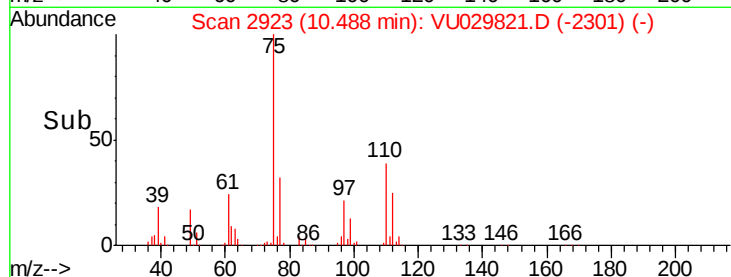
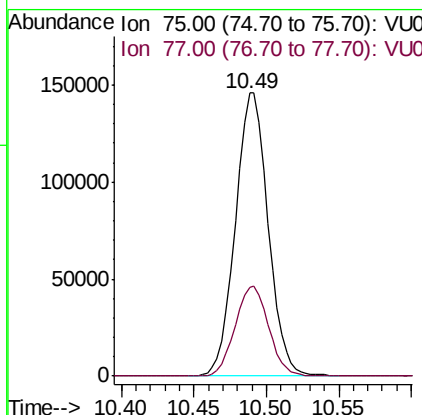
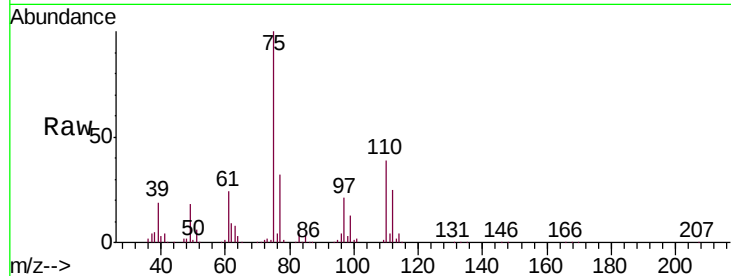




#59
 1,2,3-Trichloropropane
 Concen: 47.432 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. -0.00 min
 Lab File: VU029821.D
 Acq: 05 Mar 2019 14:36

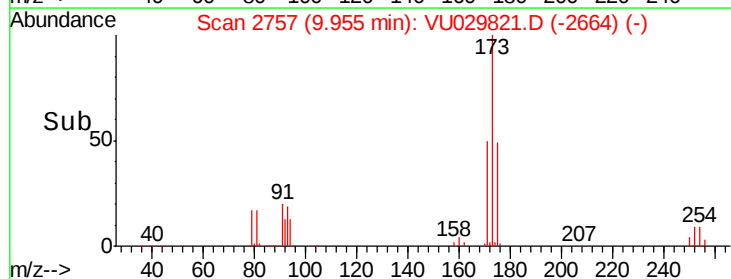
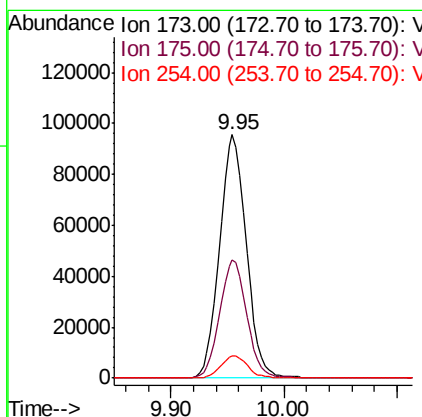
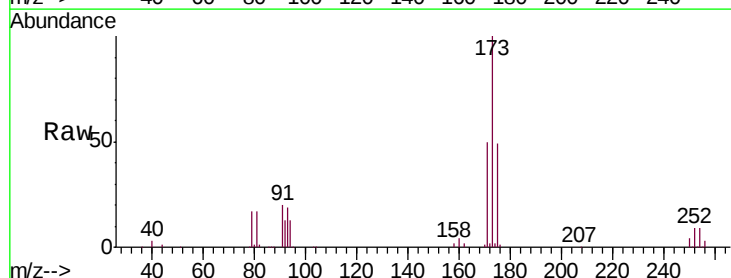
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

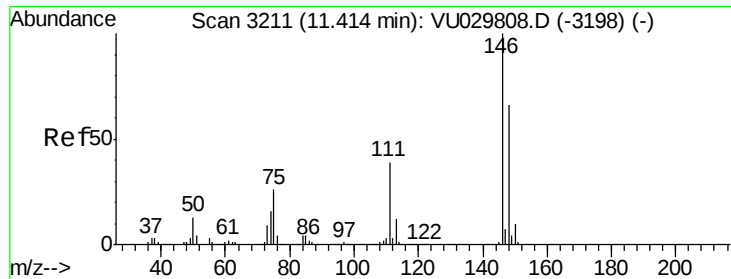
Tgt Ion: 75 Resp: 228941
 Ion Ratio Lower Upper
 75 100
 77 32.6 25.7 38.5



#61
 Bromoform
 Concen: 42.778 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. -0.00 min
 Lab File: VU029821.D
 Acq: 05 Mar 2019 14:36

Tgt Ion: 173 Resp: 157303
 Ion Ratio Lower Upper
 173 100
 175 49.1 39.0 58.4
 254 9.1 8.1 12.1





#62

1,3-Dichlorobenzene

Concen: 46.396 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

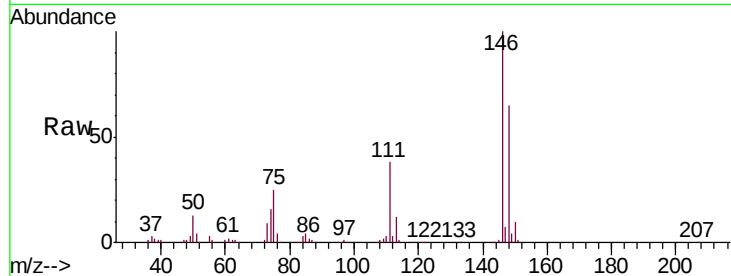
Tgt Ion:146 Resp: 403927

Ion Ratio Lower Upper

146 100

111 37.9 26.7 49.5

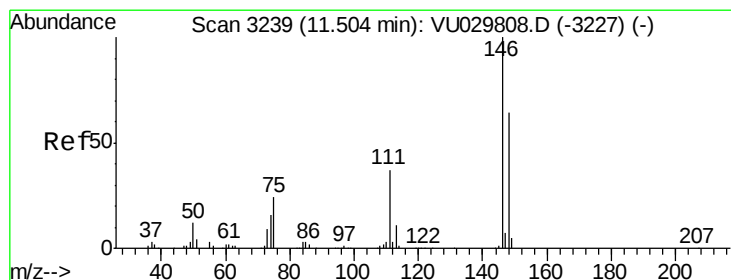
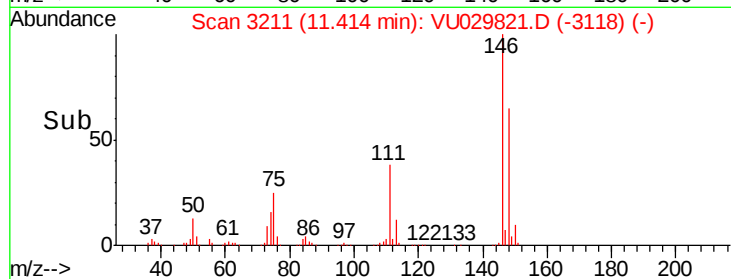
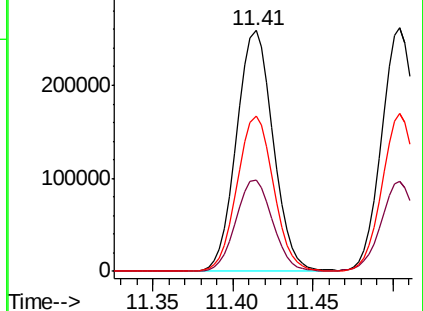
148 64.6 45.9 85.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 46.566 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

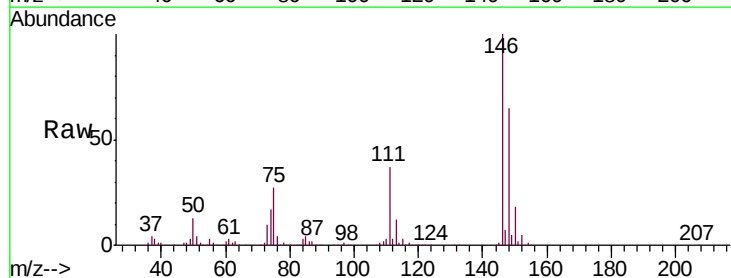
Tgt Ion:146 Resp: 407979

Ion Ratio Lower Upper

146 100

111 37.1 25.1 46.5

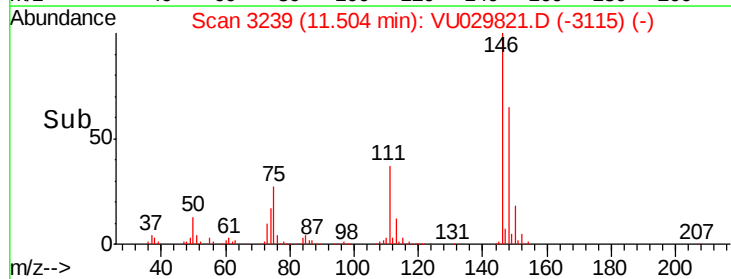
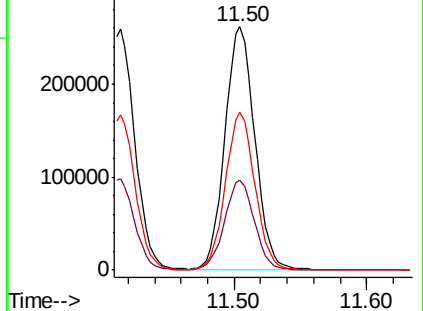
148 64.7 45.0 83.6

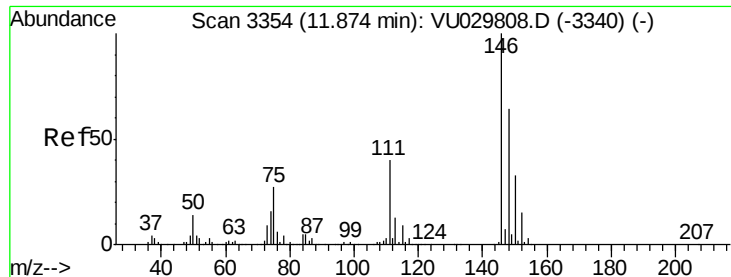


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

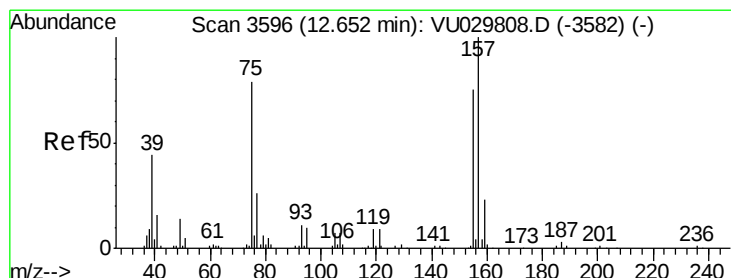
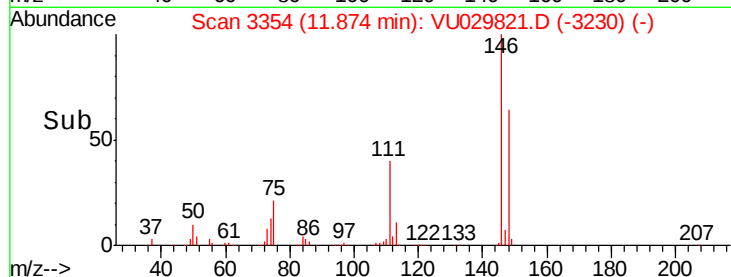
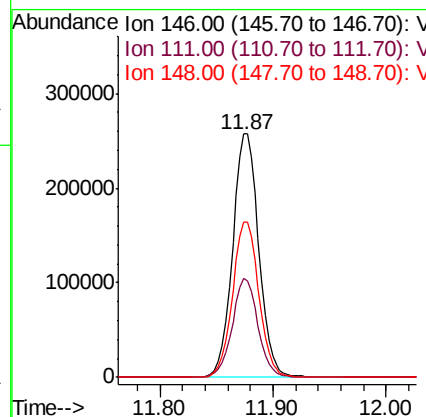
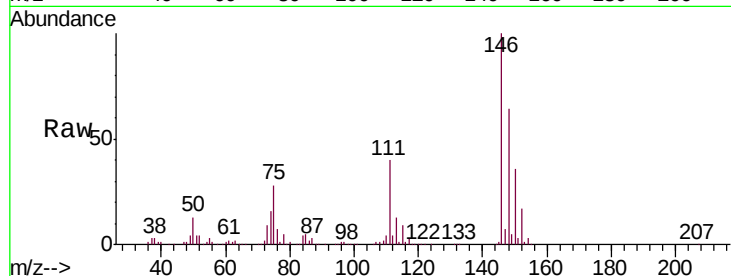




#65
 1,2-Dichlorobenzene
 Concen: 45.325 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU029821.D
 Acq: 05 Mar 2019 14:36

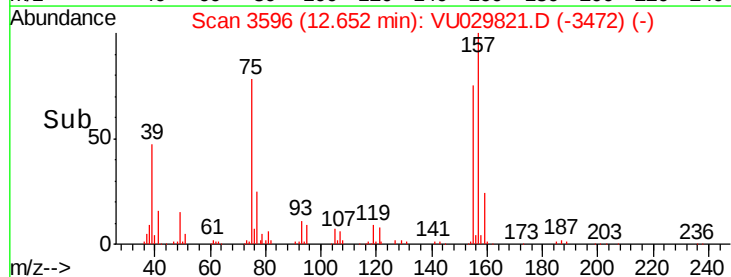
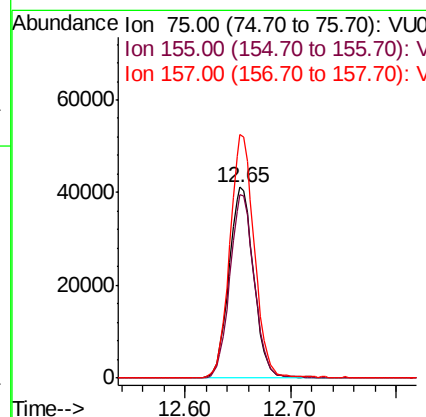
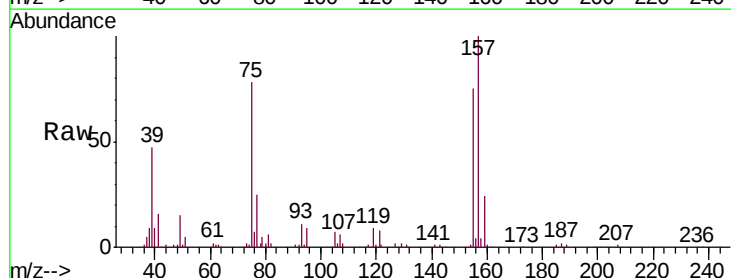
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

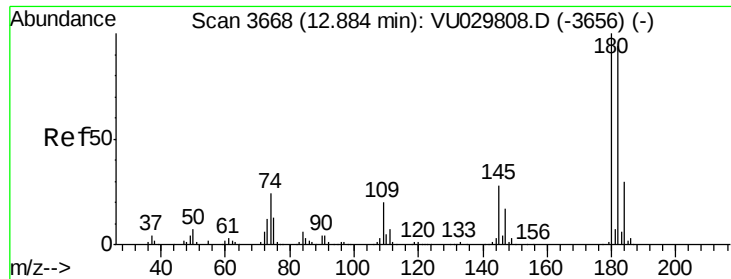
Tgt Ion: 146 Resp: 411910
 Ion Ratio Lower Upper
 146 100
 111 40.4 31.2 46.8
 148 63.7 51.6 77.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 47.286 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU029821.D
 Acq: 05 Mar 2019 14:36

Tgt Ion: 75 Resp: 66872
 Ion Ratio Lower Upper
 75 100
 155 96.1 79.5 119.3
 157 127.6 103.4 155.0

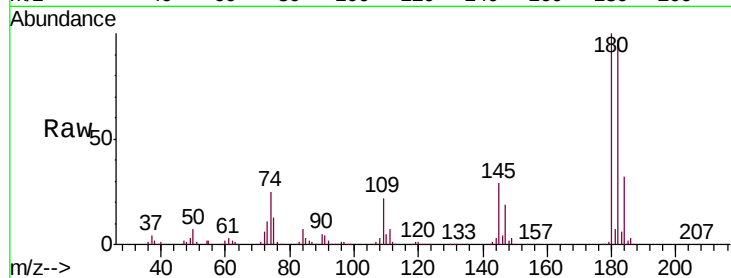




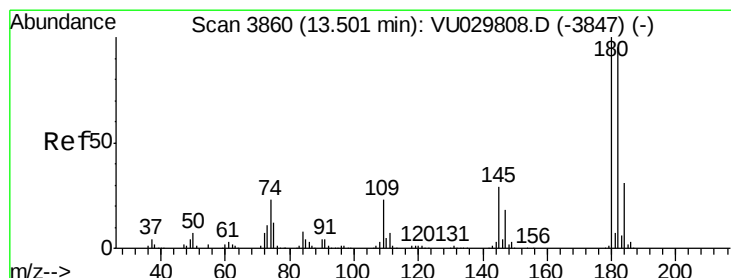
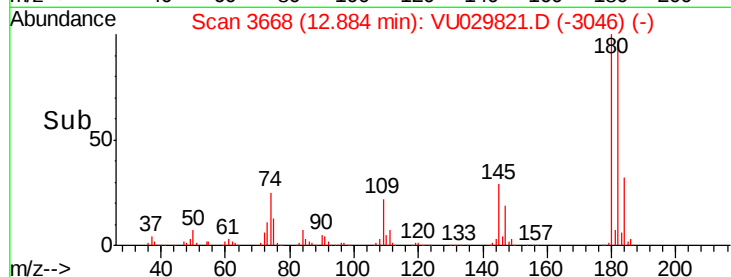
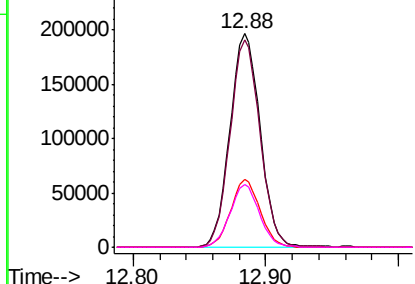
#67
 1,3,5-Trichlorobenzene
 Concen: 46.843 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU029821.D
 Acq: 05 Mar 2019 14:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tgt Ion:	180	Resp:	311212
Ion	Ratio	Lower	Upper
180	100		
182	95.9	77.9	116.9
184	30.9	24.5	36.7
145	28.5	22.4	33.6

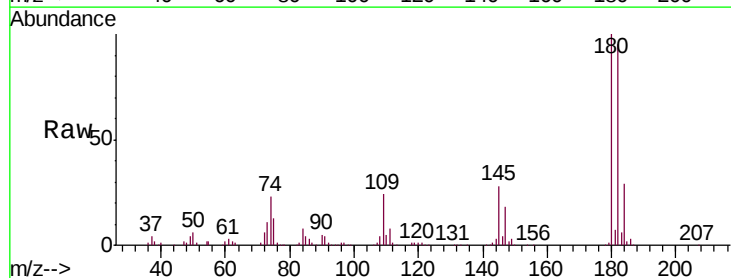


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

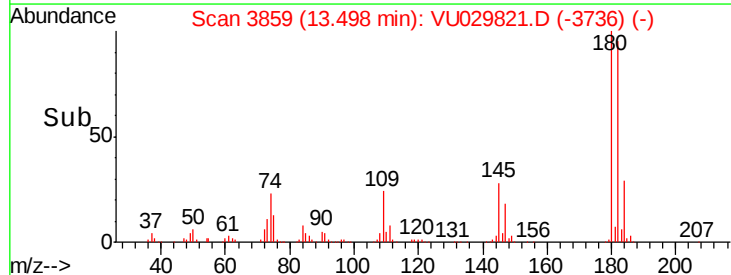
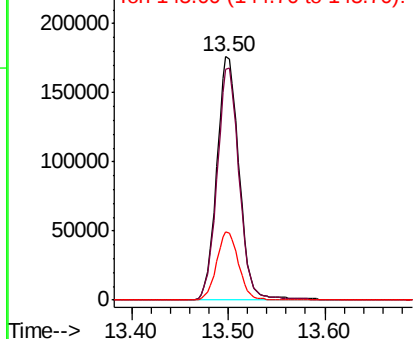


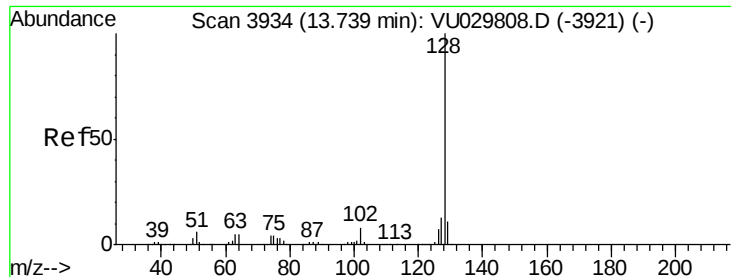
#68
 1,2,4-trichlorobenzene
 Concen: 49.309 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU029821.D
 Acq: 05 Mar 2019 14:36

Tgt Ion:	180	Resp:	283338
Ion	Ratio	Lower	Upper
180	100		
182	94.4	76.2	114.2
145	27.7	22.7	34.1



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: 48.822 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

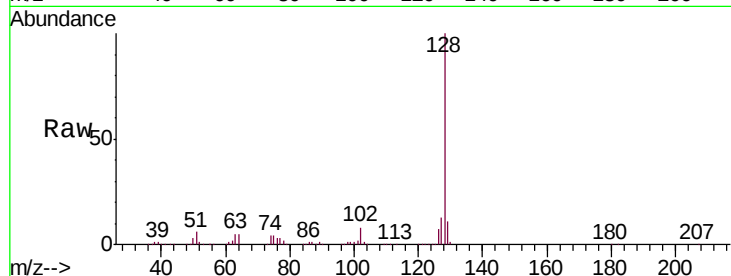
Tgt Ion:128 Resp: 862306

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.4

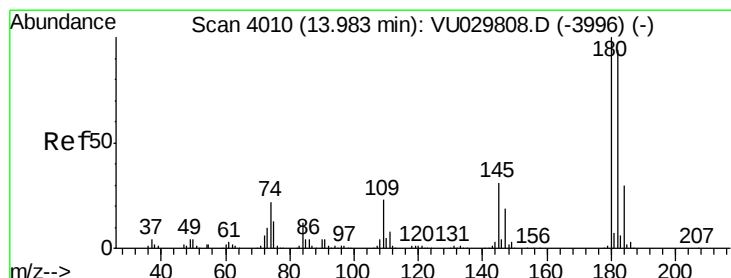
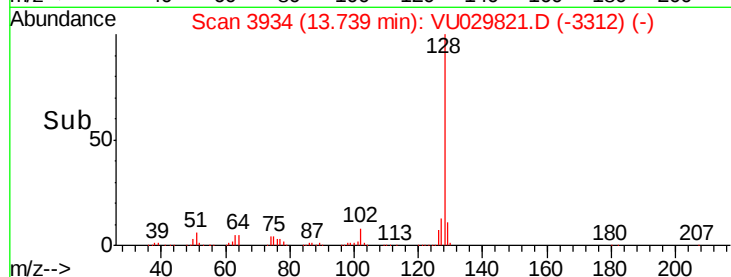
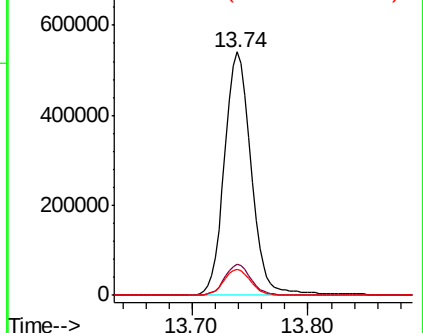
129 10.8 8.5 12.7



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: 47.305 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU029821.D

Acq: 05 Mar 2019 14:36

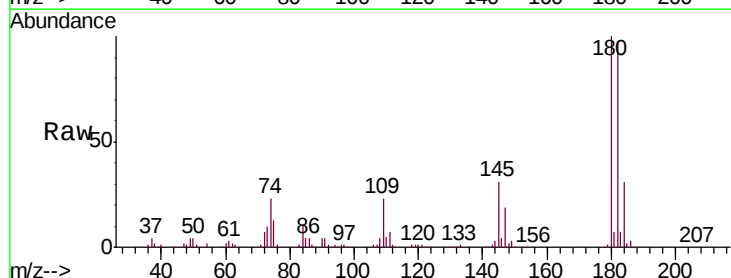
Tgt Ion:180 Resp: 288662

Ion Ratio Lower Upper

180 100

182 96.5 76.8 115.2

145 30.2 24.4 36.6



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

