

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031119\
 Data File : VU029908.D
 Acq On : 08 Mar 2019 23:58
 Operator : JC/SP
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

Quant Time: Mar 09 00:33:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM021519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Mar 08 22:13:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	515366	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	496587	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	264954	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	176720	46.80	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	93.60%
7) Chloroethane-d5	1.68	69	147315	43.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.76%
11) 1,1-Dichloroethene-d2	2.27	63	319280	43.25	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.50%
21) 2-Butanone-d5	4.17	46	272347	118.51	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	118.51%
24) Chloroform-d	4.64	84	332251	54.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.48%
26) 1,2-Dichloroethane-d4	5.31	65	193226	49.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.66%
32) Benzene-d6	5.34	84	692744	55.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	110.88%
36) 1,2-Dichloropropane-d6	6.33	67	211357	56.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	112.44%
41) Toluene-d8	7.56	98	659943	51.75	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.50%
43) trans-1,3-Dichloropropene-	7.85	79	94977	47.63	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.26%
47) 2-Hexanone-d5	8.31	63	237540	113.46	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	113.46%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	323551	50.94	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.88%
64) 1,2-Dichlorobenzene-d4	11.86	152	273580	47.91	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.82%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	156369	44.251 ug/L	99
3) Chloromethane	1.33	50	244771	78.959 ug/L	98
5) Vinyl chloride	1.40	62	185032	43.950 ug/L	99
6) Bromomethane	1.62	94	43436	22.606 ug/L	98
8) Chloroethane	1.70	64	119385	42.634 ug/L	99
9) Trichlorofluoromethane	1.89	101	231754	34.533 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	155176	43.226 ug/L	99
12) 1,1-Dichloroethene	2.28	96	154351	45.226 ug/L	89
13) Acetone	2.32	43	169192	68.896 ug/L	96
14) Carbon disulfide	2.48	76	405276	45.342 ug/L	100
15) Methyl Acetate	2.61	43	190202	59.672 ug/L	99
16) Methylene chloride	2.70	84	185095	56.048 ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	165729	52.612 ug/L	98
18) Methyl tert-butyl Ether	3.00	73	378156	38.776 ug/L	97
19) 1,1-Dichloroethane	3.44	63	300083	55.093 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	196098	53.576 ug/L	95
22) 2-Butanone	4.26	43	266682	95.155 ug/L	98

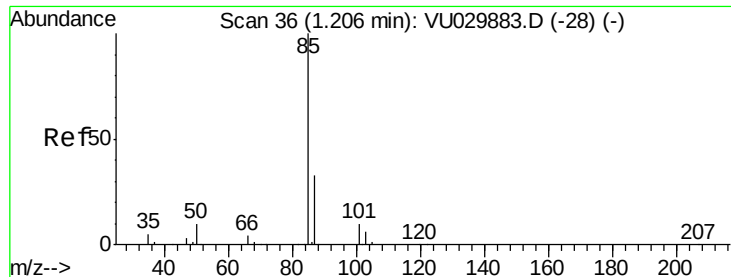
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031119\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	99812	49.745	ug/L	96
25) Chloroform	4.67	83	363030	59.737	ug/L	99
27) 1,2-Dichloroethane	5.40	62	228088	48.817	ug/L	98
29) Cyclohexane	4.99	56	248405	50.548	ug/L	96
30) 1,1,1-Trichloroethane	4.91	97	263157	49.979	ug/L	100
31) Carbon tetrachloride	5.13	117	229423	48.141	ug/L	98
33) Benzene	5.39	78	691763	54.334	ug/L	100
34) Trichloroethene	6.18	95	186269	54.309	ug/L	95
35) Methylcyclohexane	6.41	83	268617	47.160	ug/L	98
37) 1,2-Dichloropropane	6.43	63	180181	53.912	ug/L	99
38) Bromodichloromethane	6.75	83	231337	51.343	ug/L	98
39) cis-1,3-Dichloropropene	7.26	75	262377	48.659	ug/L	100
40) 4-Methyl-2-pentanone	7.45	43	508747	108.249	ug/L	97
42) Toluene	7.63	91	763556	50.713	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	238069	46.847	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	185634	52.111	ug/L	98
46) Tetrachloroethene	8.22	164	153728	45.793	ug/L	98
48) 2-Hexanone	8.36	43	401740	97.851	ug/L	97
49) Dibromochloromethane	8.47	129	184641	42.755	ug/L	99
50) 1,2-Dibromoethane	8.58	107	197341	50.001	ug/L	98
51) Chlorobenzene	9.12	112	506736	49.036	ug/L	99
52) Ethylbenzene	9.25	91	836951	48.944	ug/L	100
53) m,p-Xylene	9.37	106	325306	47.391	ug/L	98
54) o-xylene	9.77	106	324097	47.005	ug/L	98
55) Styrene	9.79	104	538889	46.298	ug/L	95
56) Isopropylbenzene	10.16	105	840409	46.579	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	324687	51.543	ug/L	97
59) 1,2,3-Trichloropropane	10.49	75	243903	51.184	ug/L	100
61) Bromoform	9.95	173	118308	33.158	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	417380	49.407	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	417838	49.149	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	425022	48.198	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.65	75	64471	46.982	ug/L	99
67) 1,3,5-Trichlorobenzene	12.88	180	315537	48.947	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	293635	52.663	ug/L	99
69) Naphthalene	13.74	128	997014	58.175	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	310433	52.429	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 44.251 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

Instrument :

MSVOA_U

ClientSampleId :

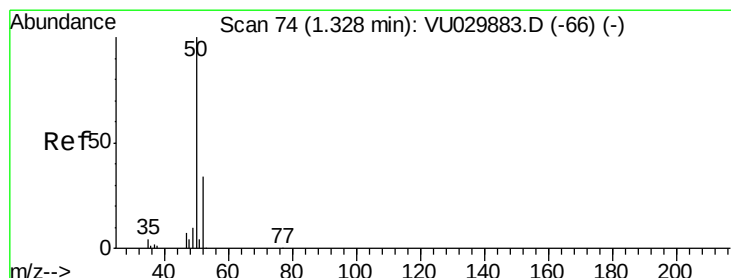
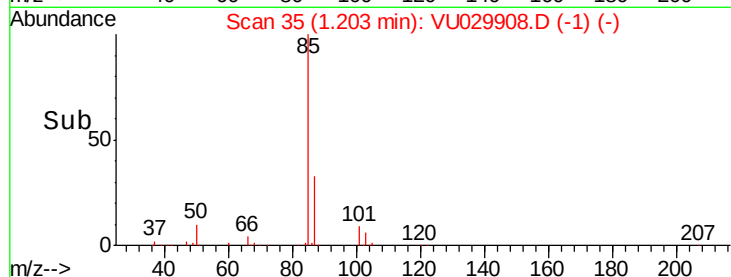
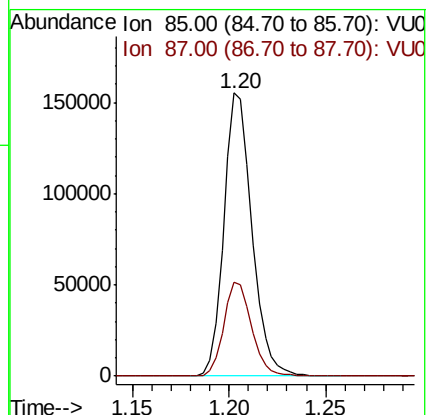
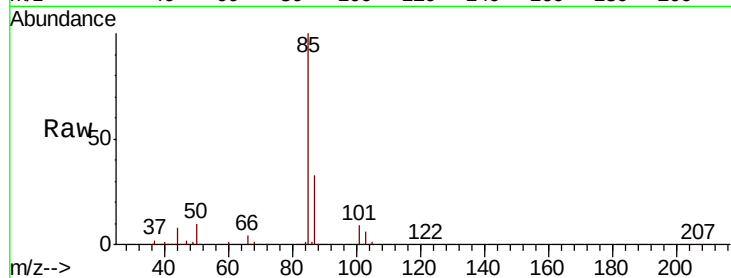
VSTD05054

Tgt Ion: 85 Resp: 156369

Ion Ratio Lower Upper

85 100

87 32.9 25.9 38.9



#3

Chloromethane

Concen: 78.959 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU029908.D

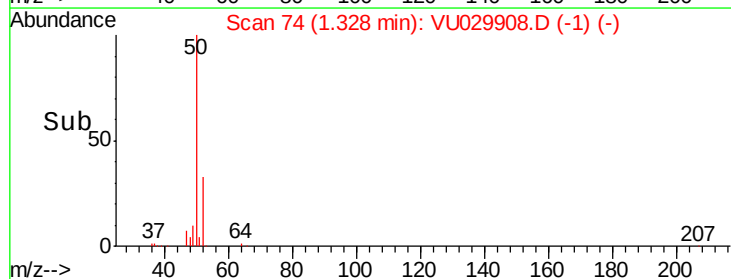
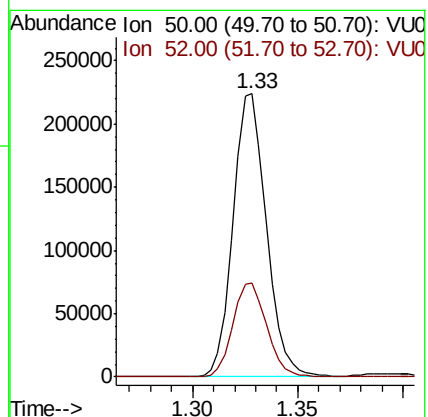
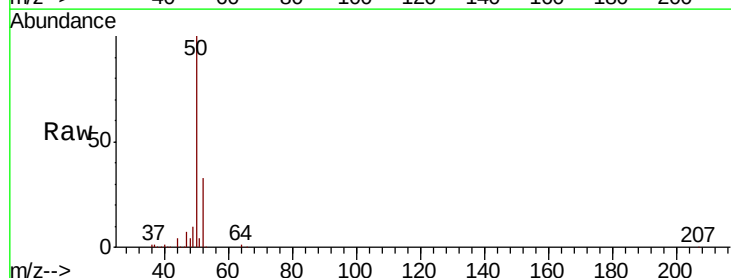
Acq: 08 Mar 2019 23:58

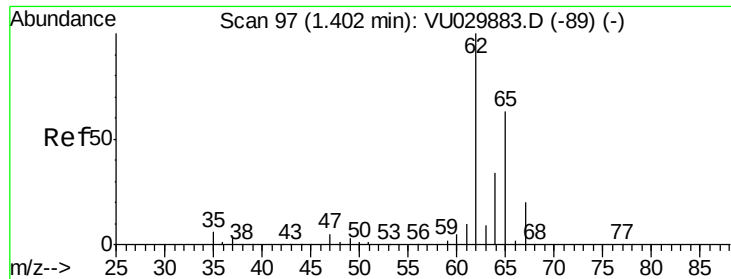
Tgt Ion: 50 Resp: 244771

Ion Ratio Lower Upper

50 100

52 33.1 23.9 44.3





#5

Vinyl chloride

Concen: 43.950 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

Instrument :

MSVOA_U

ClientSampleId :

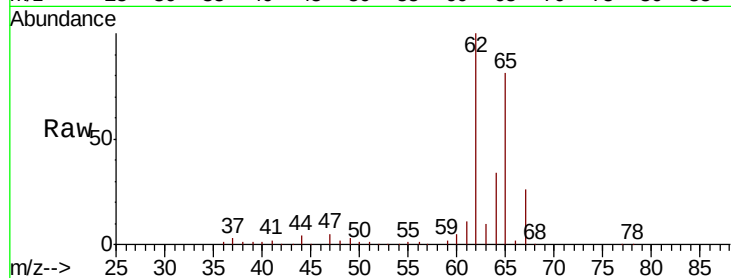
VSTD05054

Tgt Ion: 62 Resp: 185032

Ion Ratio Lower Upper

62 100

64 34.5 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

150000

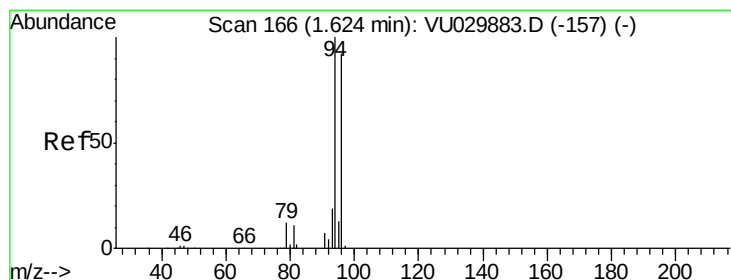
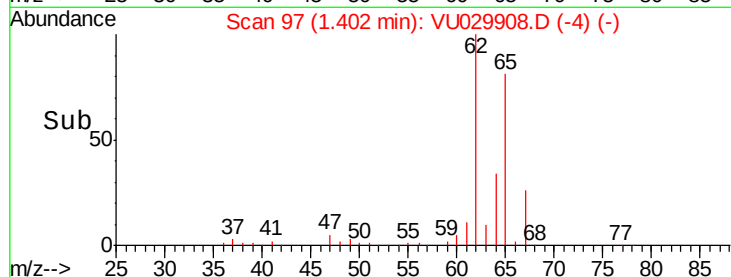
100000

50000

0

Time-->

1.35 1.40 1.45



#6

Bromomethane

Concen: 22.606 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU029908.D

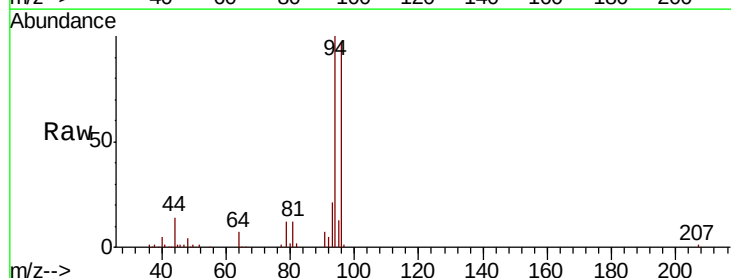
Acq: 08 Mar 2019 23:58

Tgt Ion: 94 Resp: 43436

Ion Ratio Lower Upper

94 100

96 96.6 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

40000

30000

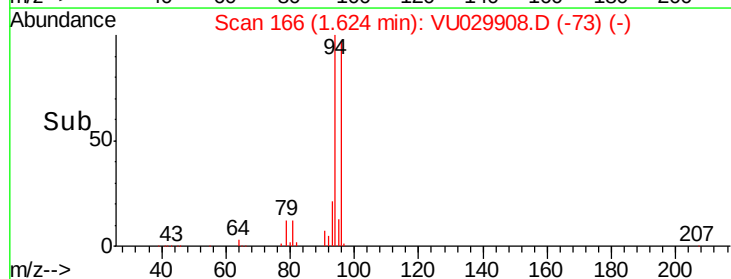
20000

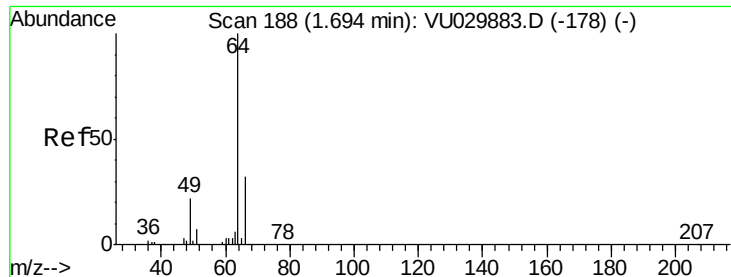
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0

Time-->

1.60 1.65

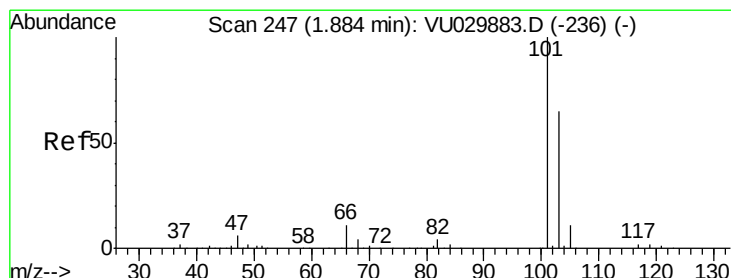
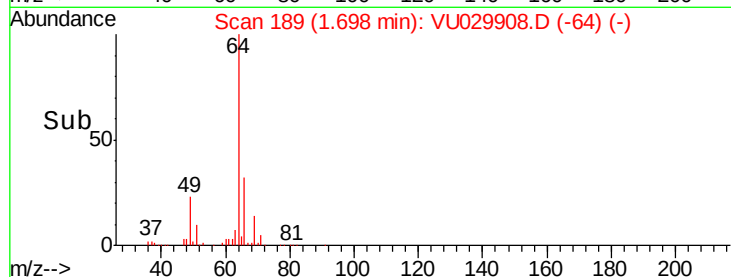
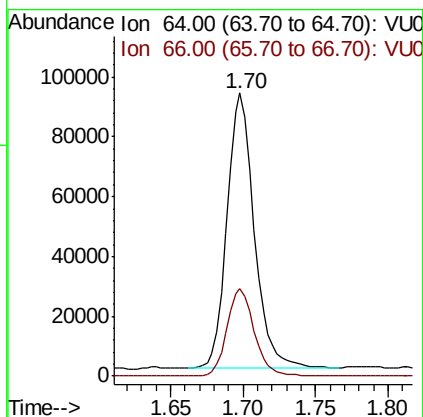
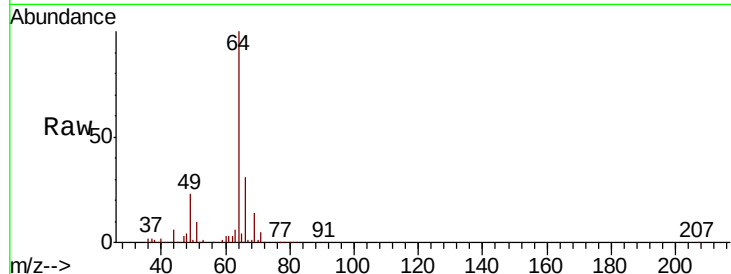




#8
 Chloroethane
 Concen: 42.634 ug/L
 RT: 1.70 min Scan# 189
 Delta R.T. 0.00 min
 Lab File: VU029908.D
 Acq: 08 Mar 2019 23:58

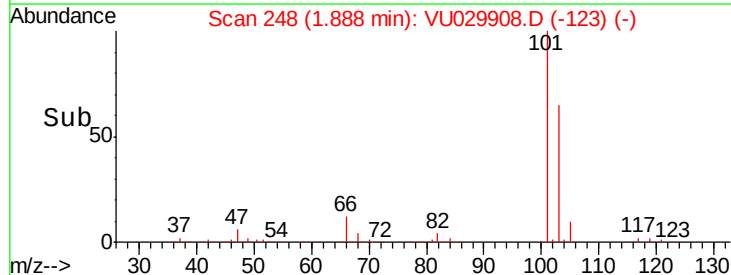
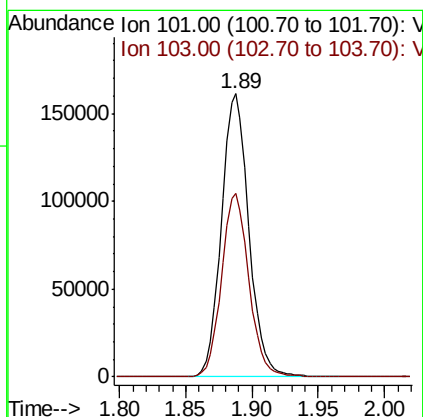
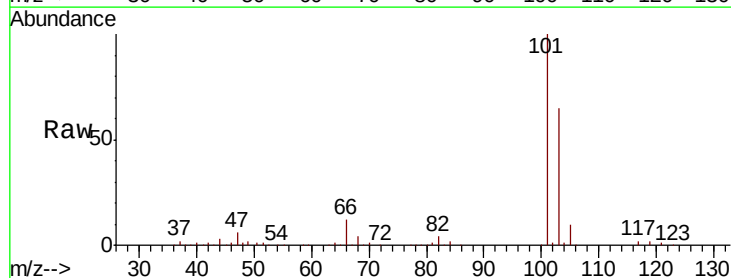
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

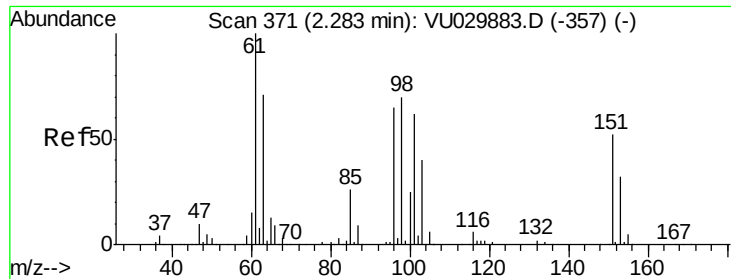
Tgt Ion: 64 Resp: 119385
 Ion Ratio Lower Upper
 64 100
 66 30.9 22.0 41.0



#9
 Trichlorofluoromethane
 Concen: 34.533 ug/L
 RT: 1.89 min Scan# 248
 Delta R.T. 0.00 min
 Lab File: VU029908.D
 Acq: 08 Mar 2019 23:58

Tgt Ion: 101 Resp: 231754
 Ion Ratio Lower Upper
 101 100
 103 64.6 51.4 77.2





#10

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

Concen: 43.226 ug/L

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

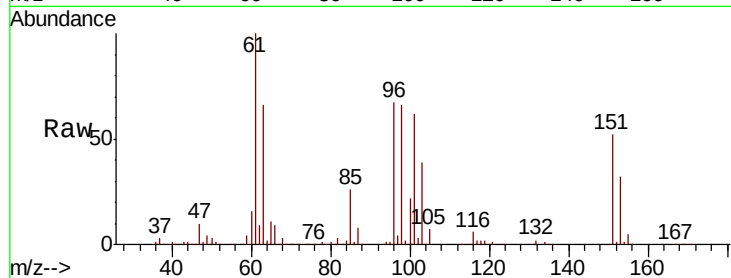
Tgt Ion: 101 Resp: 155176

Ion Ratio Lower Upper

101 100

85 41.8 33.0 49.6

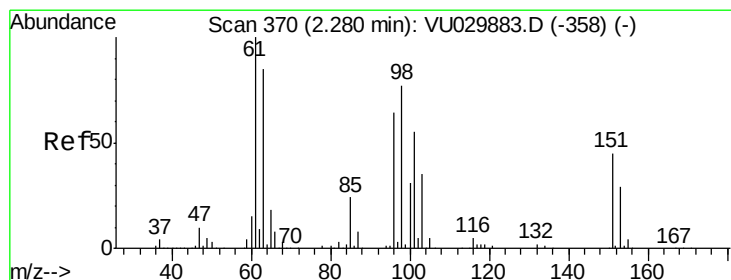
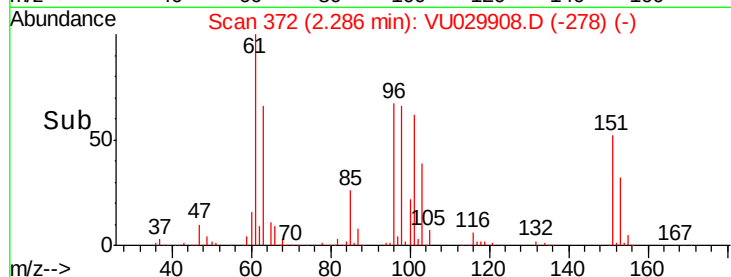
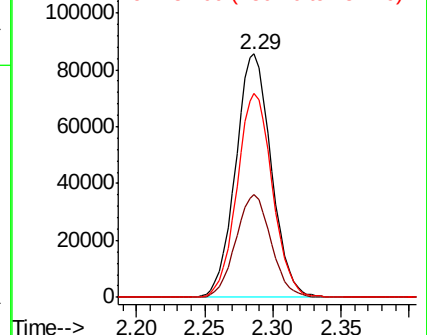
151 83.2 65.7 98.5



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: 45.226 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

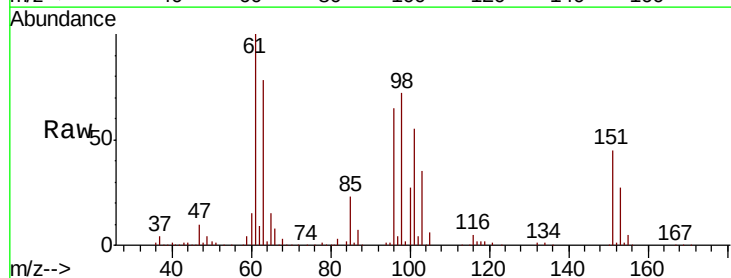
Tgt Ion: 96 Resp: 154351

Ion Ratio Lower Upper

96 100

61 154.3 114.0 211.8

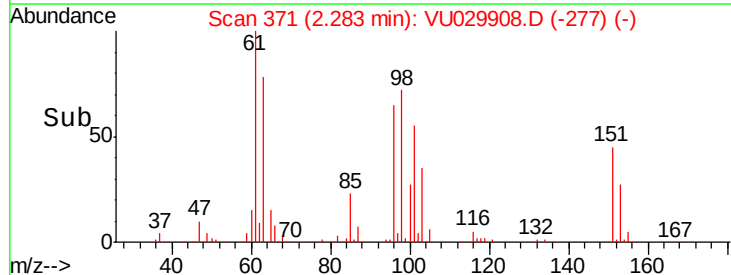
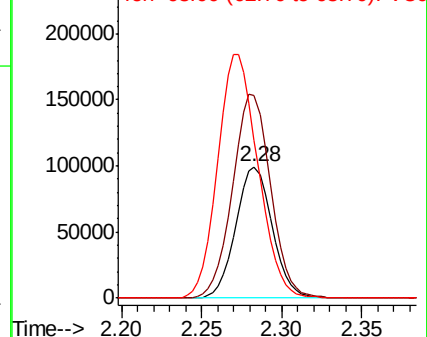
63 119.9 98.7 183.3

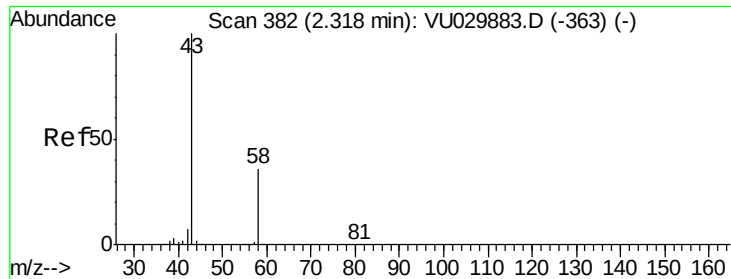


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 68.896 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU029908.D

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Instrument :

MSVOA_U

ClientSampleId :

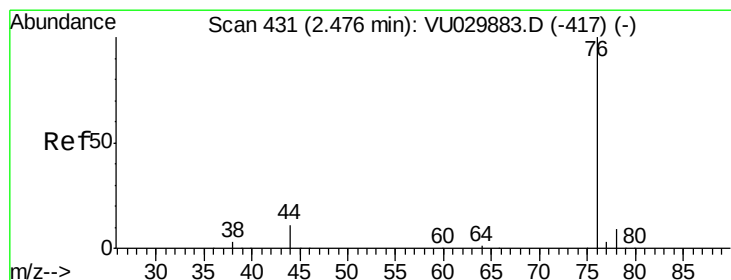
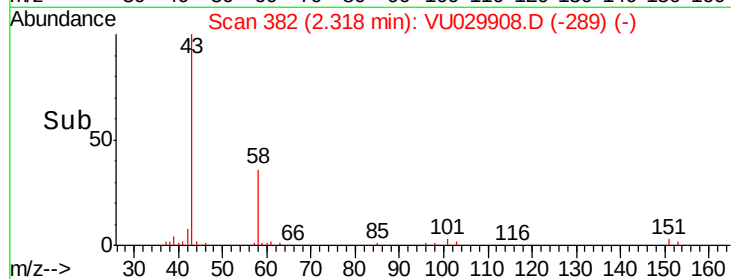
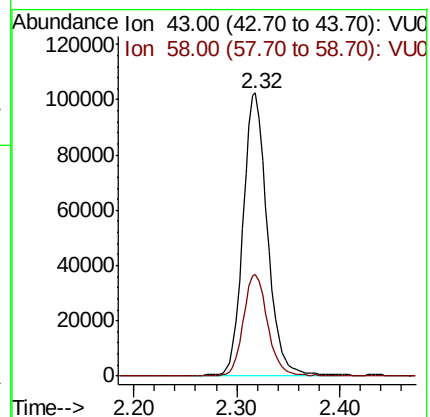
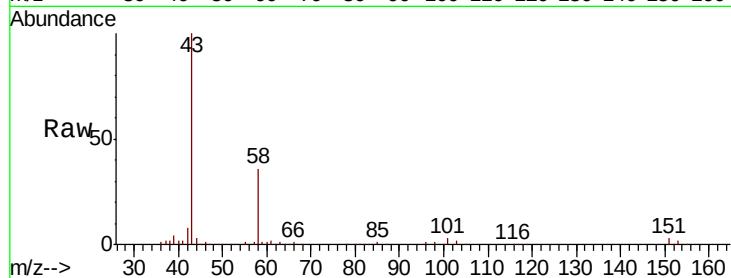
VSTD05054

Tgt Ion: 43 Resp: 169192

Ion Ratio Lower Upper

43 100

58 35.6 0.0 66.8



#14

Carbon disulfide

Concen: 45.342 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU029908.D

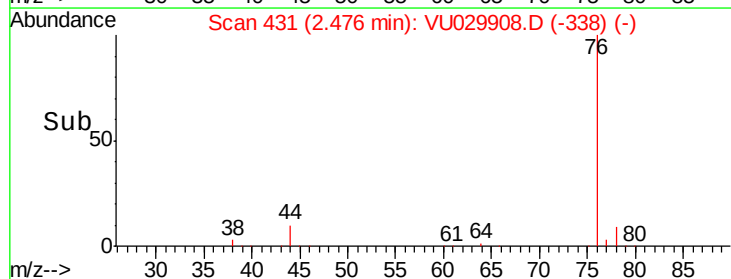
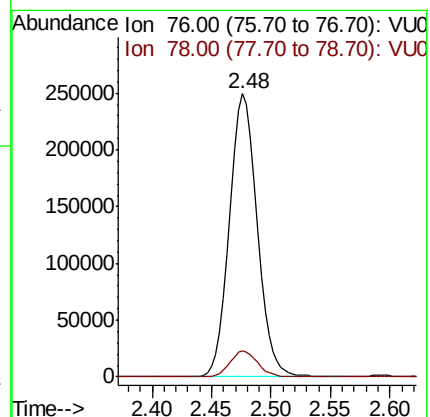
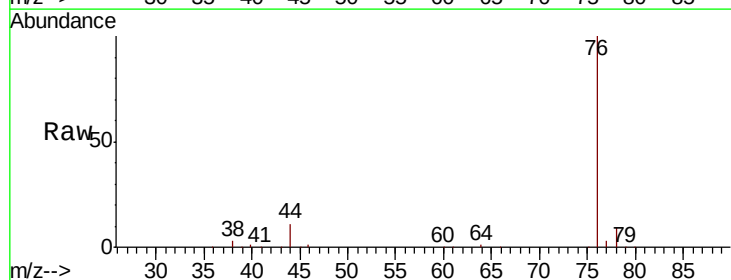
Acq: 08 Mar 2019 23:58

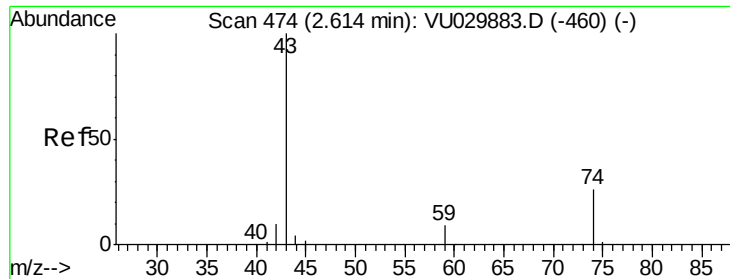
Tgt Ion: 76 Resp: 405276

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.2

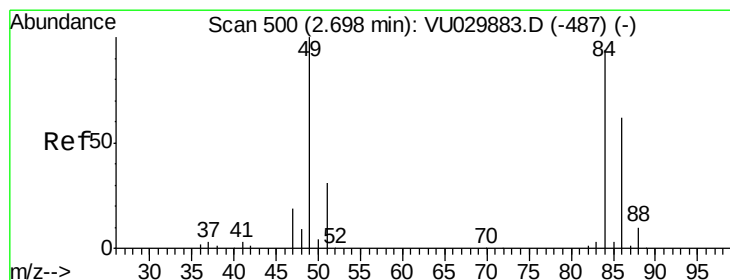
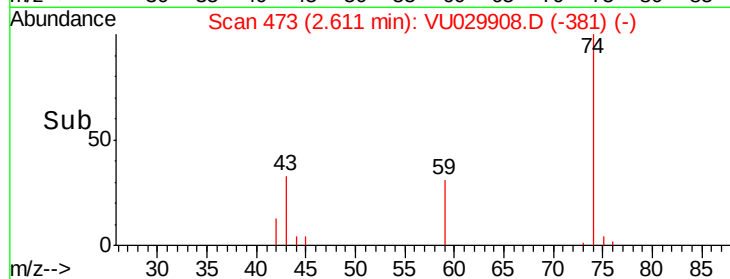
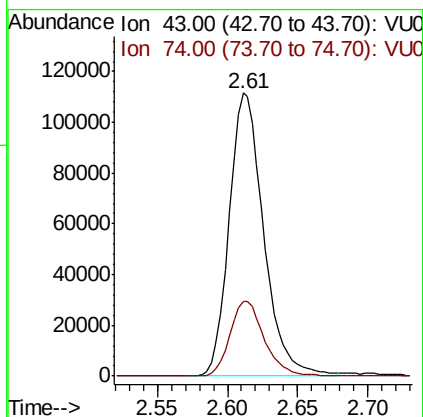
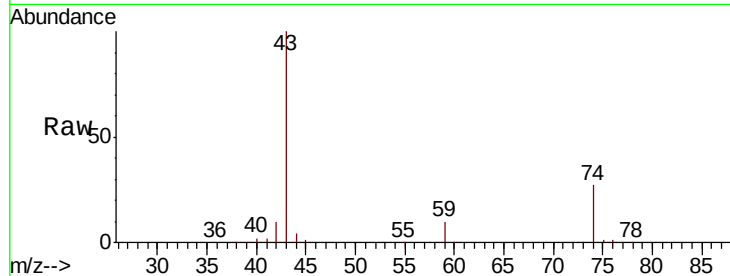




#15
Methyl Acetate
Concen: 59.672 ug/L
RT: 2.61 min Scan# 473
Delta R.T. -0.00 min
Lab File: VU029908.D
Acq: 08 Mar 2019 23:58

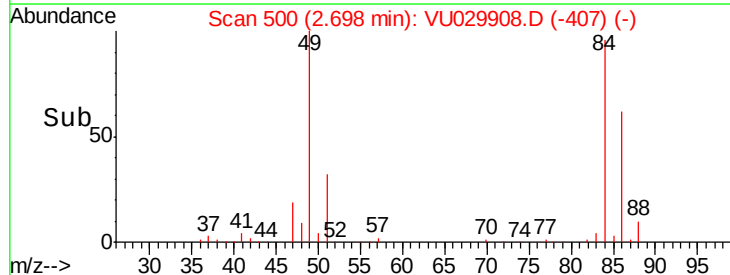
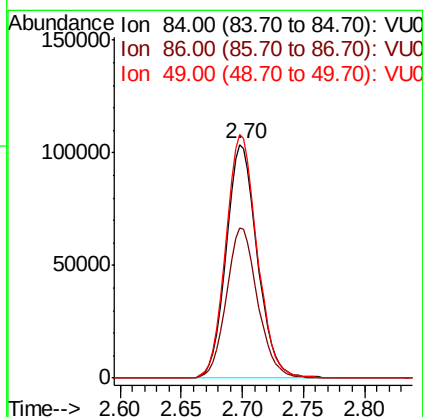
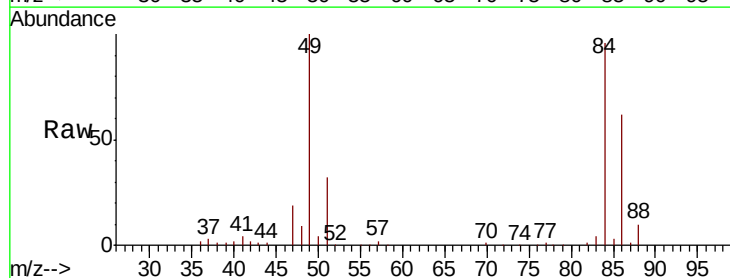
Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

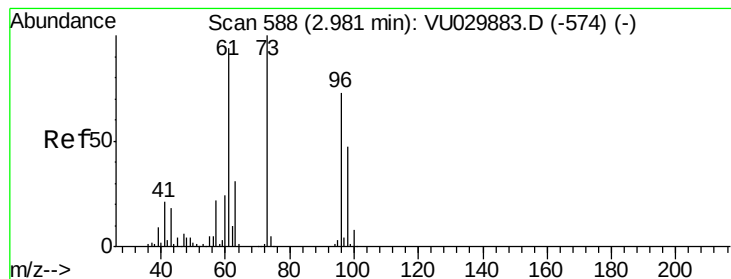
Tgt Ion: 43 Resp: 190202
Ion Ratio Lower Upper
43 100
74 26.6 21.5 32.3



#16
Methylene chloride
Concen: 56.048 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU029908.D
Acq: 08 Mar 2019 23:58

Tgt Ion: 84 Resp: 185095
Ion Ratio Lower Upper
84 100
86 64.6 45.8 85.0
49 104.2 75.1 139.5





#17

trans-1,2-Dichloroethene

Concen: 52.612 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

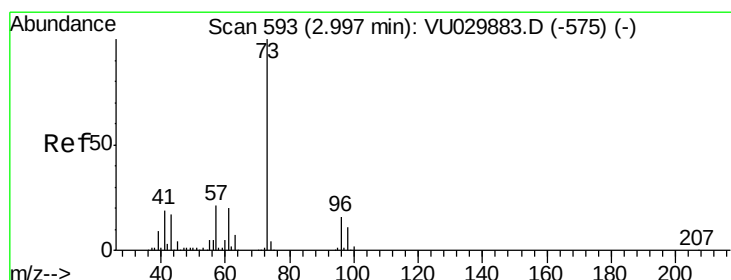
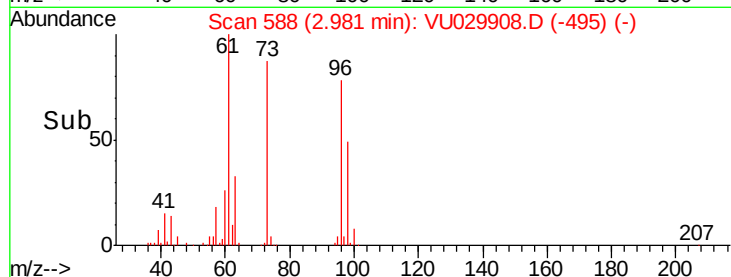
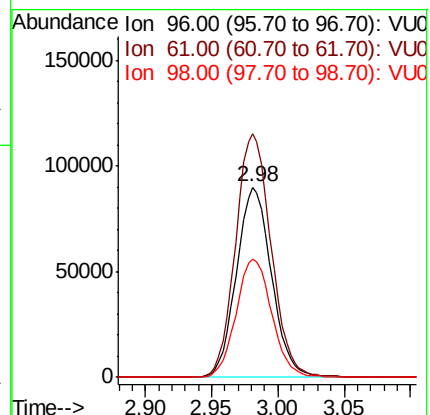
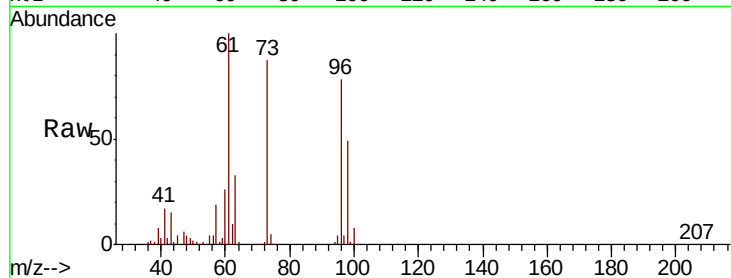
Tgt Ion: 96 Resp: 165729

Ion Ratio Lower Upper

96 100

61 128.1 88.3 163.9

98 62.3 44.8 83.2



#18

Methyl tert-butyl Ether

Concen: 38.776 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

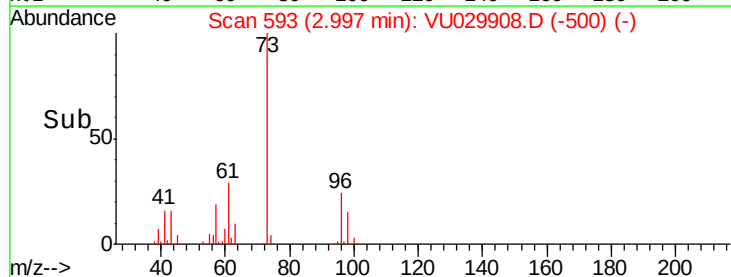
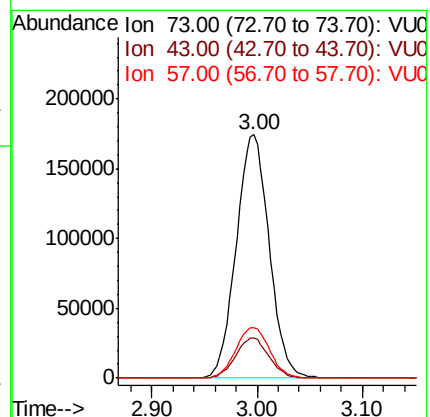
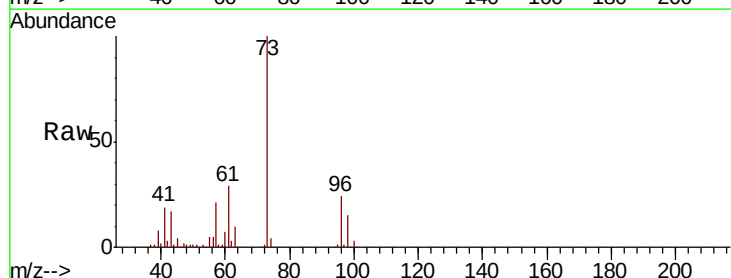
Tgt Ion: 73 Resp: 378156

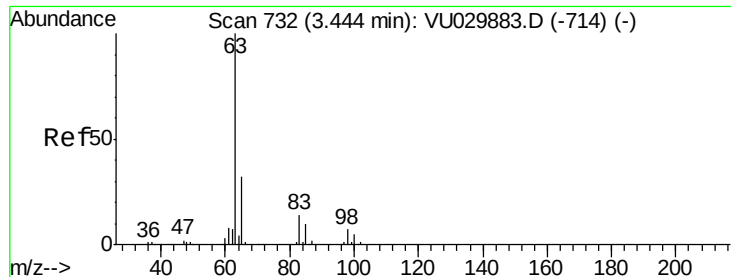
Ion Ratio Lower Upper

73 100

43 16.6 14.8 22.2

57 21.4 16.5 24.7

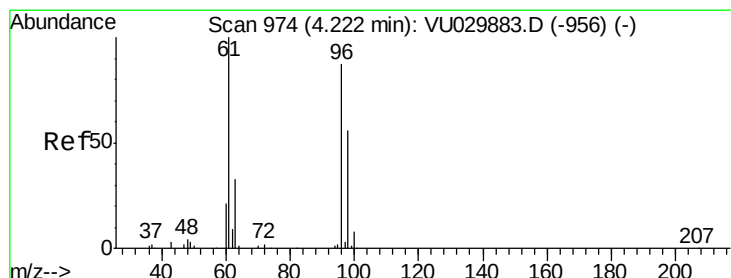
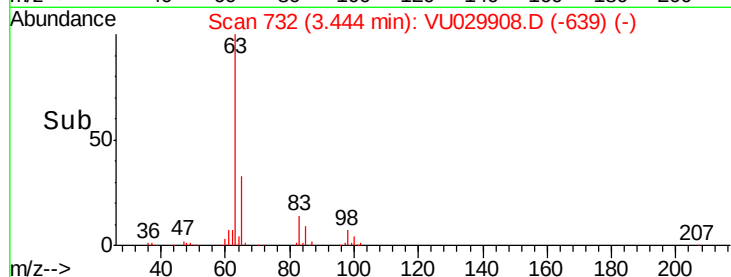
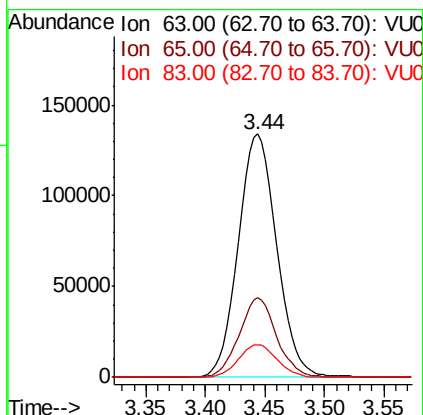
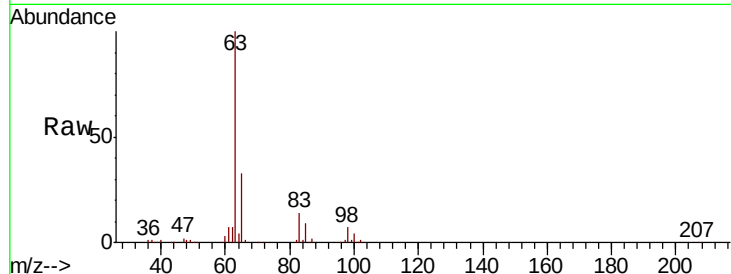




#19
 1,1-Dichloroethane
 Concen: 55.093 ug/L
 RT: 3.44 min Scan# 732
 Delta R.T. 0.00 min
 Lab File: VU029908.D
 Acq: 08 Mar 2019 23:58

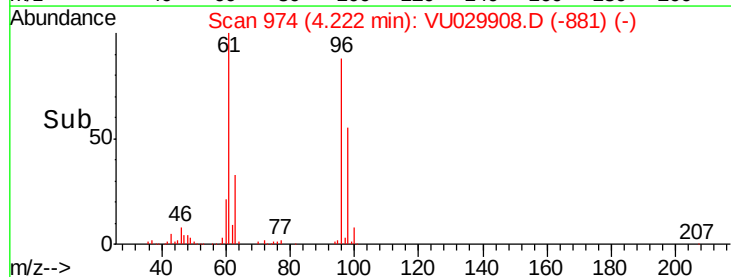
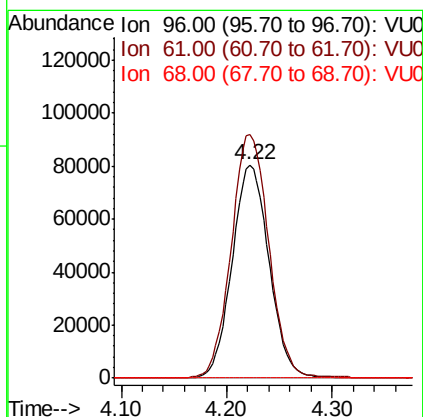
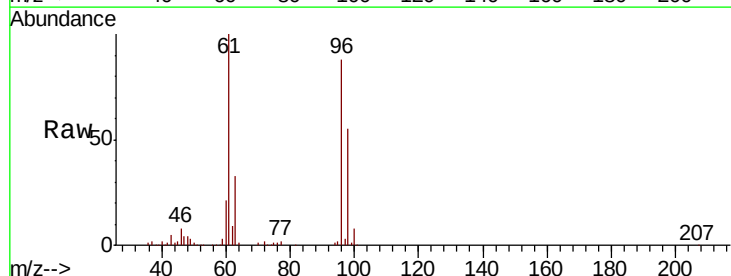
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

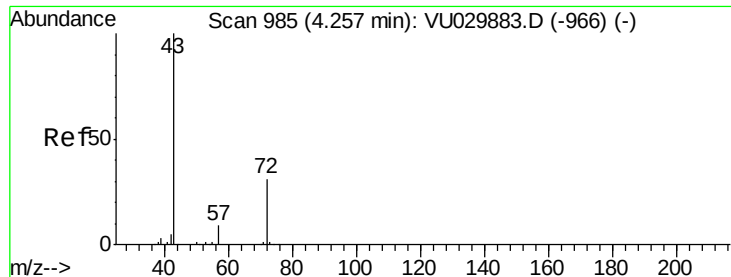
Tgt Ion: 63 Resp: 300083
 Ion Ratio Lower Upper
 63 100
 65 32.5 22.3 41.3
 83 13.5 9.9 18.3



#20
 cis-1,2-Dichloroethene
 Concen: 53.576 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU029908.D
 Acq: 08 Mar 2019 23:58

Tgt Ion: 96 Resp: 196098
 Ion Ratio Lower Upper
 96 100
 61 114.2 83.9 155.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 95.155 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

Instrument :

MSVOA_U

ClientSampleId :

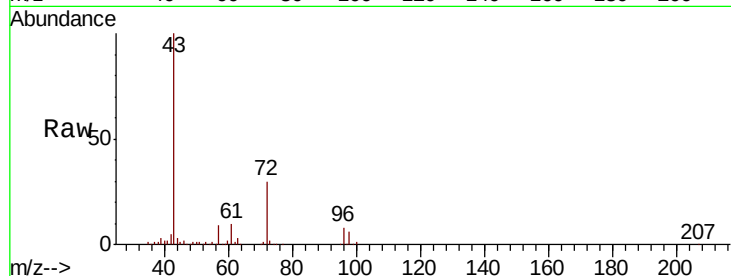
VSTD05054

Tgt Ion: 43 Resp: 266682

Ion Ratio Lower Upper

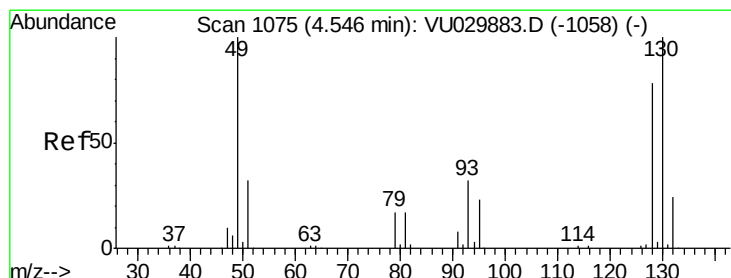
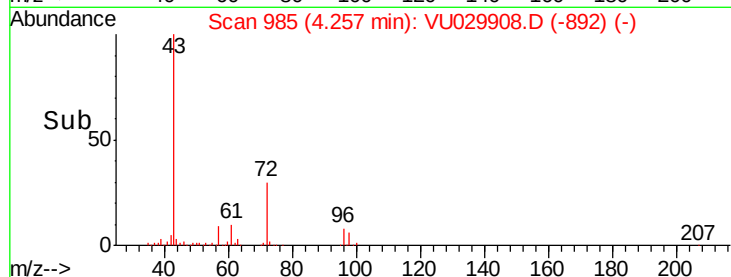
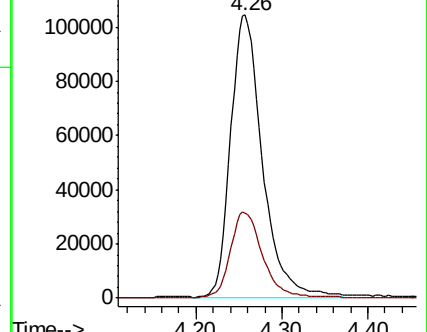
43 100

72 31.3 15.2 45.6



Abundance Ion 43.00 (42.70 to 43.70): VU029908.D (-892) (-)

Ion 72.00 (71.70 to 72.70): VU029908.D (-892) (-)



#23

Bromochloromethane

Concen: 49.745 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

Tgt Ion: 128 Resp: 99812

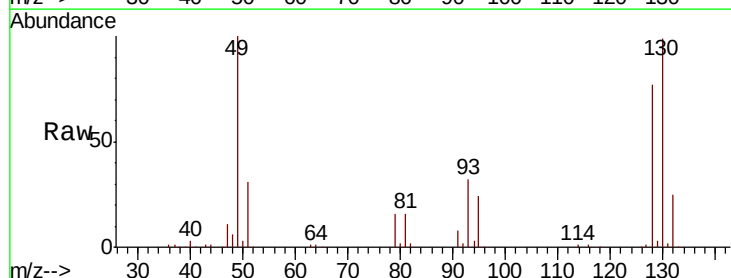
Ion Ratio Lower Upper

128 100

49 130.6 85.9 159.5

130 128.7 91.3 169.5

51 40.7 32.2 48.2

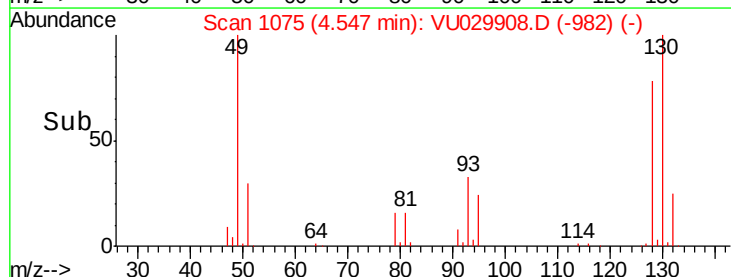
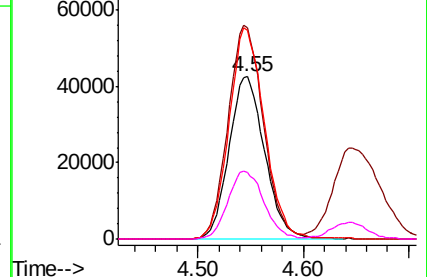


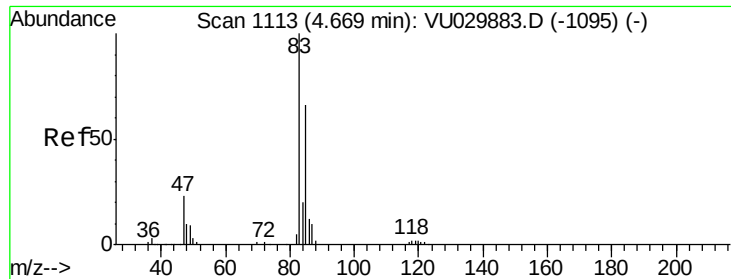
Abundance Ion 128.00 (127.70 to 128.70): VU029908.D (-982) (-)

Ion 49.00 (48.70 to 49.70): VU029908.D (-982) (-)

Ion 130.00 (129.70 to 130.70): VU029908.D (-982) (-)

Ion 51.00 (50.70 to 51.70): VU029908.D (-982) (-)

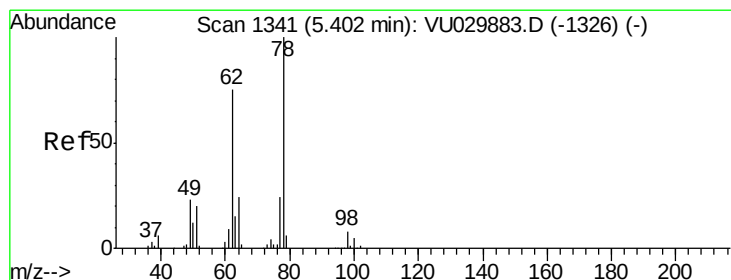
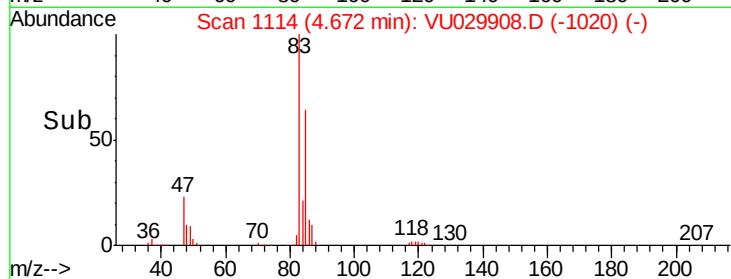
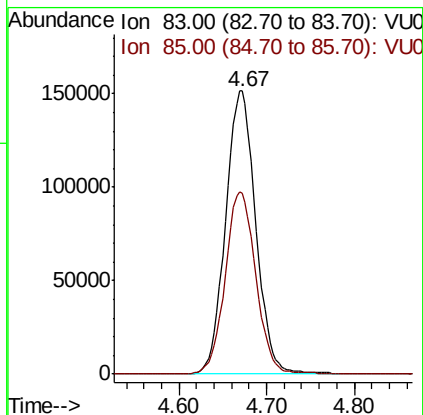
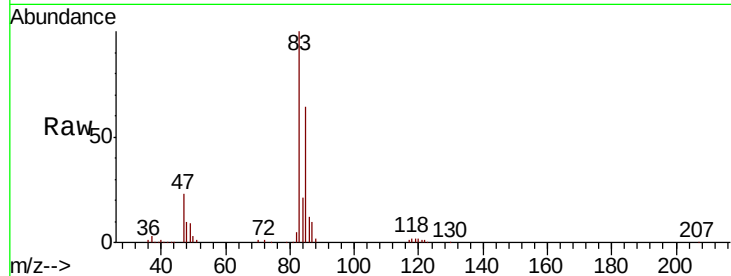




#25
Chloroform
Concen: 59.737 ug/L
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VU029908.D
Acq: 08 Mar 2019 23:58

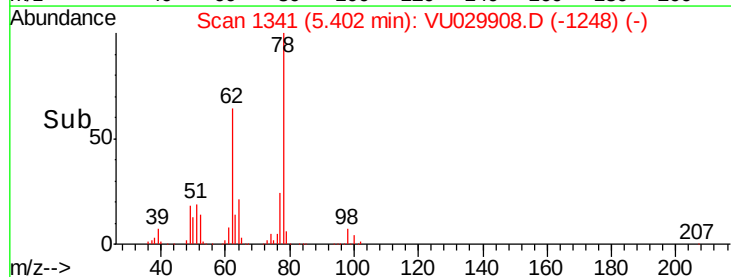
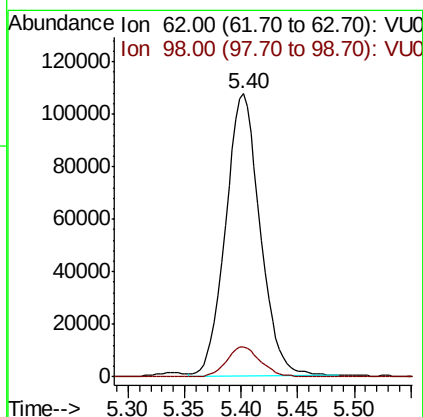
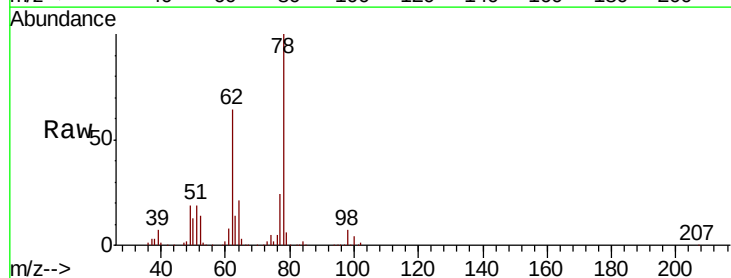
Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

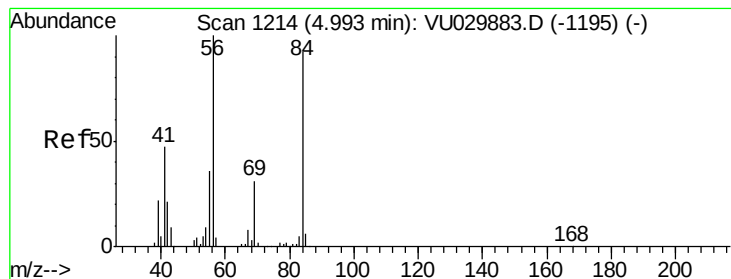
Tgt Ion: 83 Resp: 363030
Ion Ratio Lower Upper
83 100
85 63.7 45.4 84.2



#27
1,2-Dichloroethane
Concen: 48.817 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU029908.D
Acq: 08 Mar 2019 23:58

Tgt Ion: 62 Resp: 228088
Ion Ratio Lower Upper
62 100
98 10.6 7.8 11.8





#29

Cyclohexane

Concen: 50.548 ug/L

RT: 4.99 min Scan# 1214

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

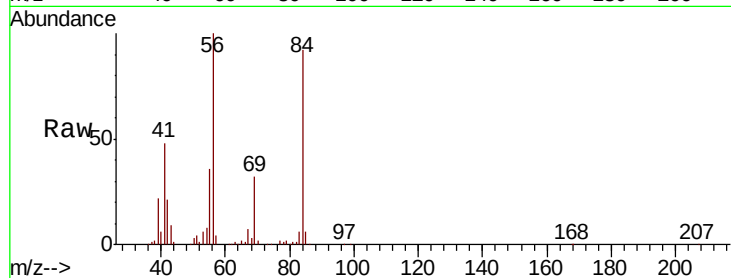
Tgt Ion: 56 Resp: 248405

Ion Ratio Lower Upper

56 100

69 31.6 25.7 38.5

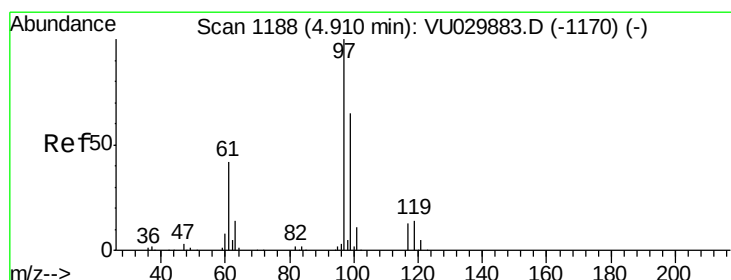
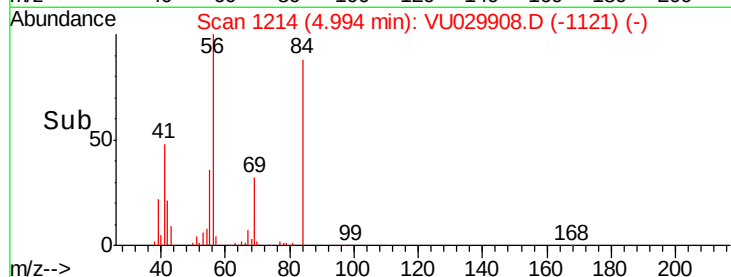
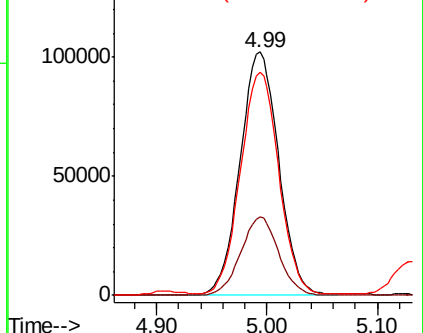
84 91.7 77.1 115.7



Abundance Ion 56.00 (55.70 to 56.70): VU029908.D (-1195) (-)

Ion 69.00 (68.70 to 69.70): VU029908.D (-1195) (-)

Ion 84.00 (83.70 to 84.70): VU029908.D (-1195) (-)



#30

1,1,1-Trichloroethane

Concen: 49.979 ug/L

RT: 4.91 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

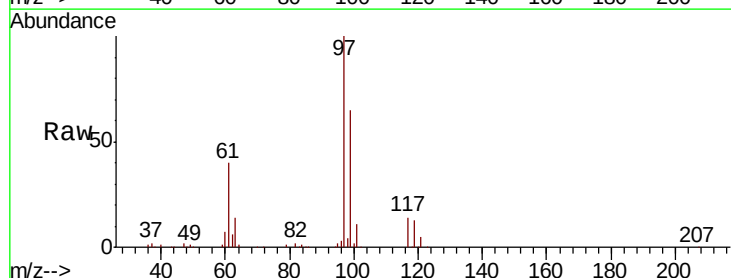
Tgt Ion: 97 Resp: 263157

Ion Ratio Lower Upper

97 100

99 64.7 51.4 77.0

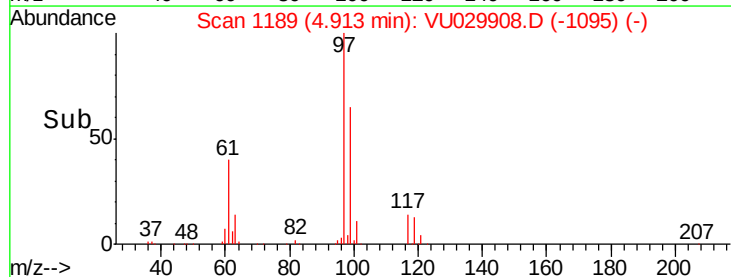
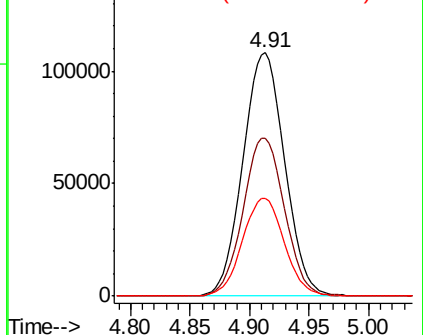
61 40.3 32.3 48.5

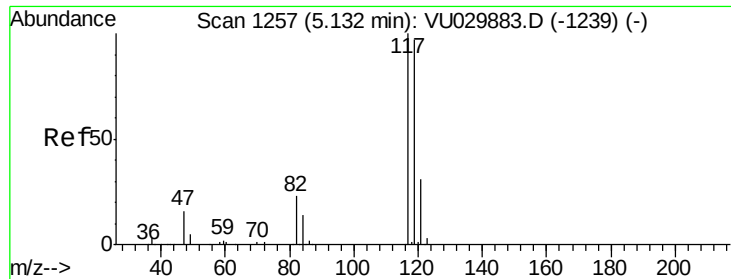


Abundance Ion 97.00 (96.70 to 97.70): VU029908.D (-1170) (-)

Ion 99.00 (98.70 to 99.70): VU029908.D (-1170) (-)

Ion 61.05 (60.75 to 61.75): VU029908.D (-1170) (-)

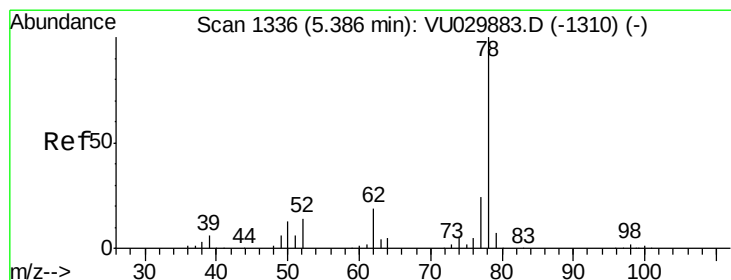
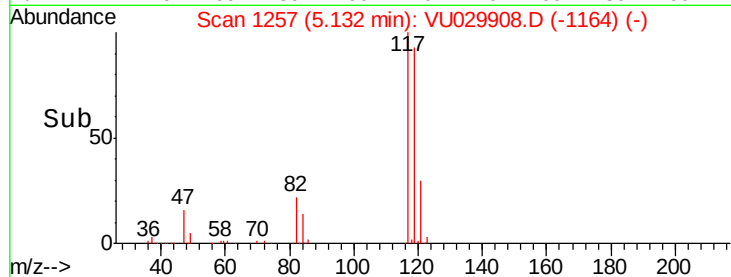
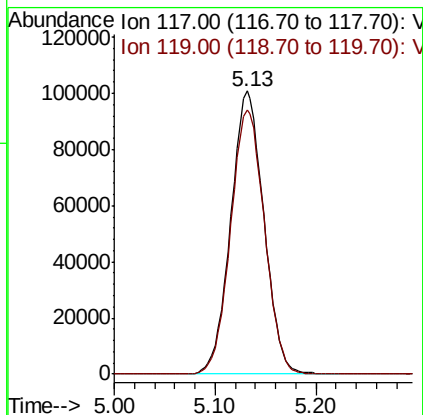
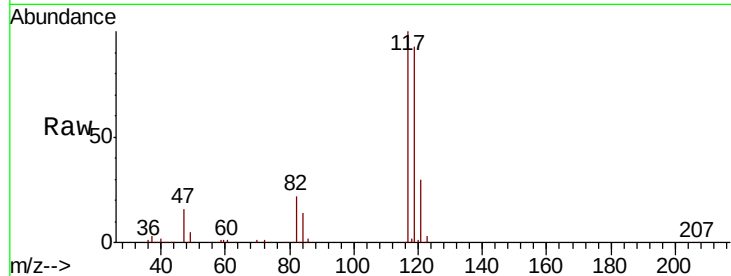




#31
Carbon tetrachloride
Concen: 48.141 ug/L
RT: 5.13 min Scan# 1257
Delta R.T. 0.00 min
Lab File: VU029908.D
Acq: 08 Mar 2019 23:58

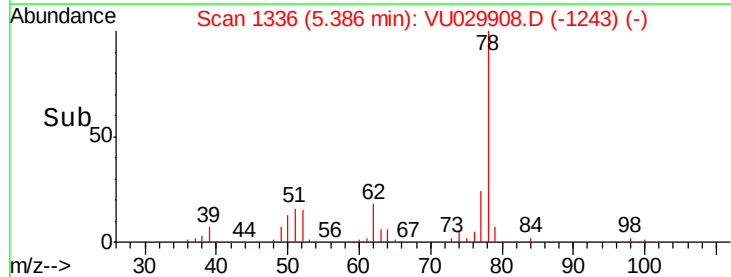
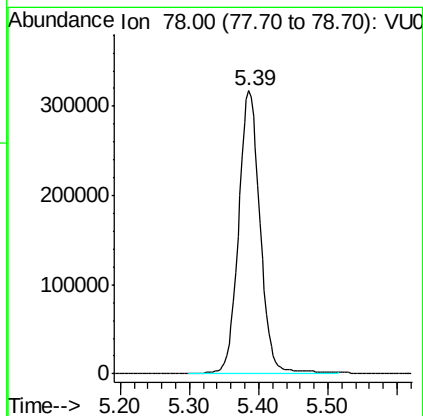
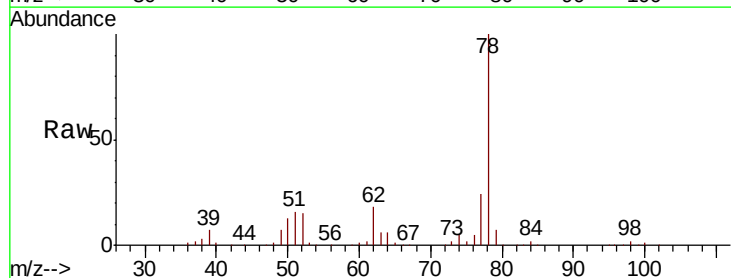
Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

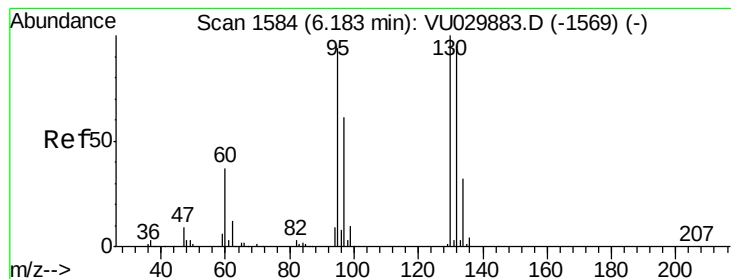
Tgt Ion:117 Resp: 229423
Ion Ratio Lower Upper
117 100
119 95.4 77.8 116.8



#33
Benzene
Concen: 54.334 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VU029908.D
Acq: 08 Mar 2019 23:58

Tgt Ion: 78 Resp: 691763





#34

Trichloroethene

Concen: 54.309 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

Tgt Ion: 95 Resp: 186269

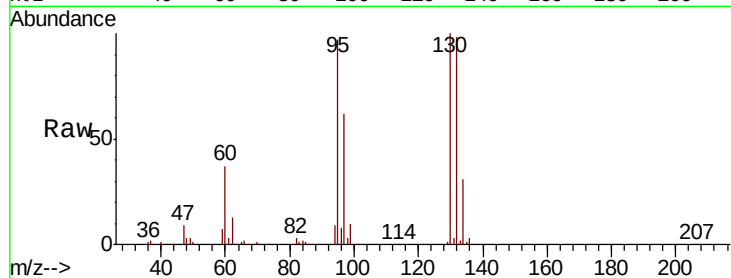
Ion Ratio Lower Upper

95 100

97 63.4 44.6 82.8

132 100.4 74.6 138.6

130 102.8 77.2 143.4

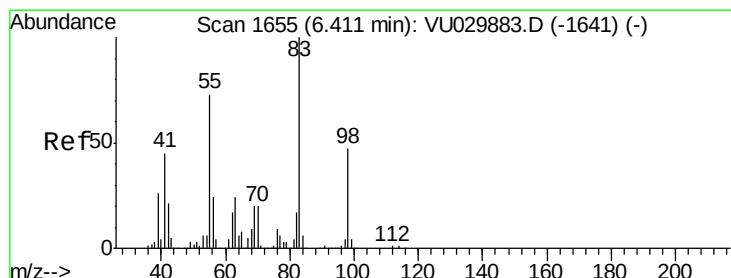
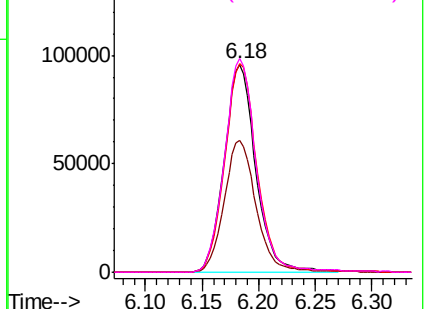
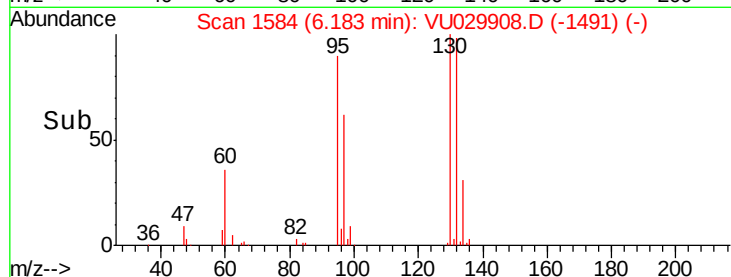


Abundance Ion 95.00 (94.70 to 95.70): VU029908.D (-1562) (-)

Ion 97.00 (96.70 to 97.70): VU029908.D (-1562) (-)

Ion 132.00 (131.70 to 132.70): VU029908.D (-1562) (-)

Ion 130.00 (129.70 to 130.70): VU029908.D (-1562) (-)



#35

Methylcyclohexane

Concen: 47.160 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

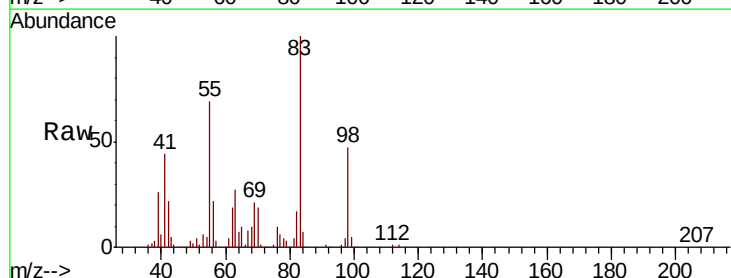
Tgt Ion: 83 Resp: 268617

Ion Ratio Lower Upper

83 100

55 70.1 55.2 82.8

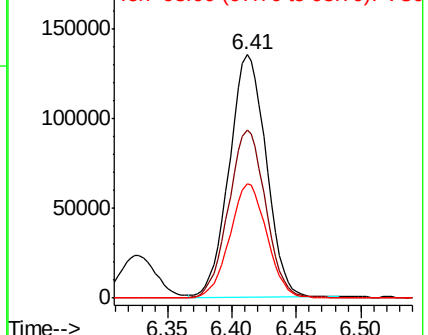
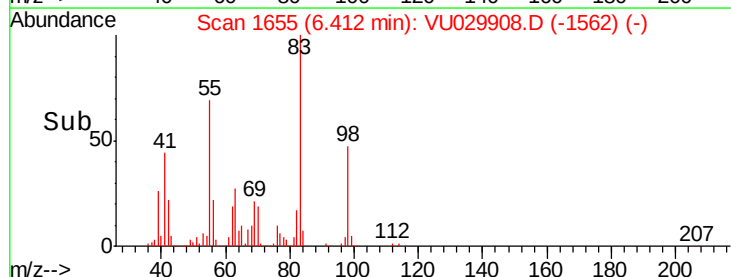
98 47.4 39.4 59.2

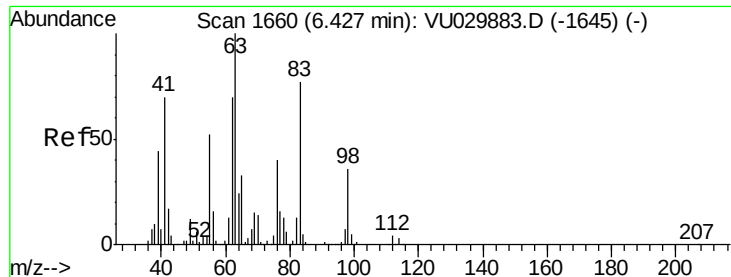


Abundance Ion 83.00 (82.70 to 83.70): VU029908.D (-1562) (-)

Ion 55.00 (54.70 to 55.70): VU029908.D (-1562) (-)

Ion 98.00 (97.70 to 98.70): VU029908.D (-1562) (-)

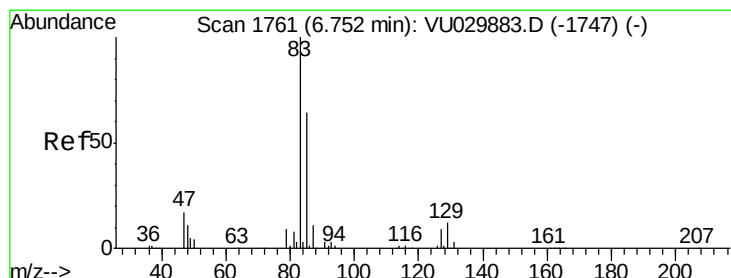
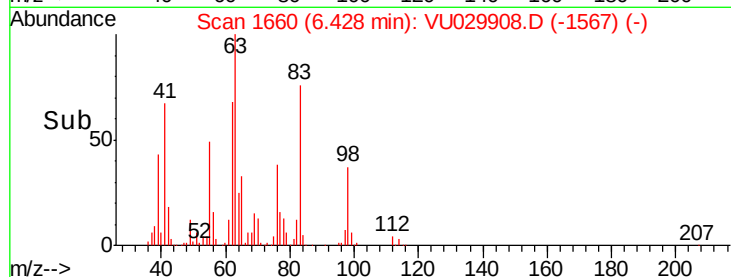
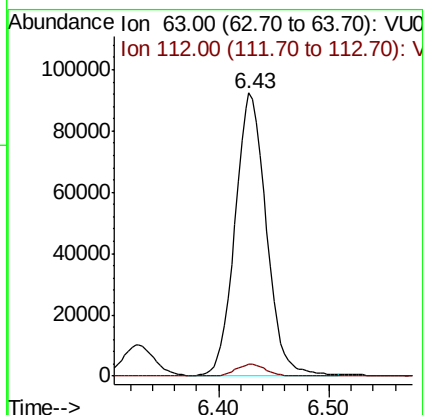
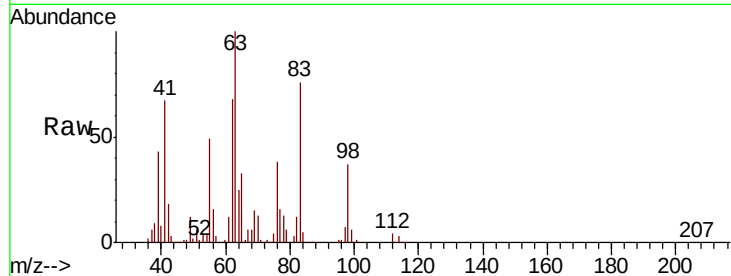




#37
 1,2-Dichloropropane
 Concen: 53.912 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU029908.D
 Acq: 08 Mar 2019 23:58

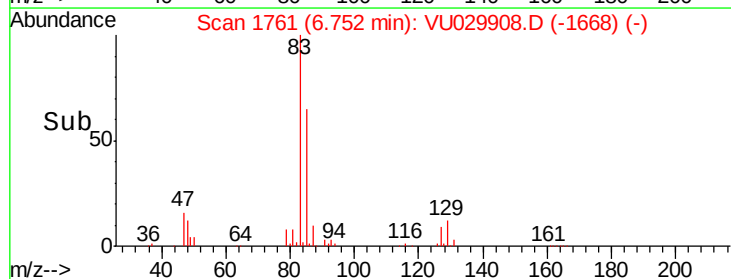
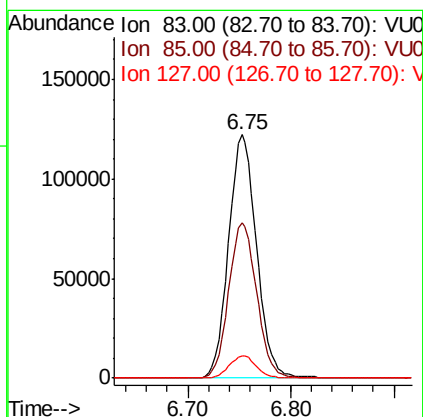
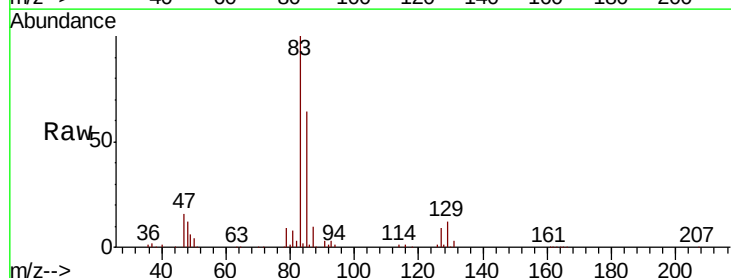
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

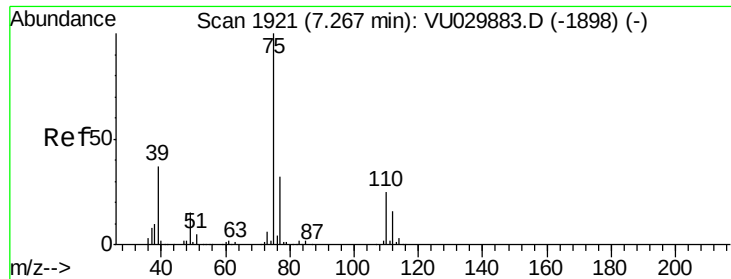
Tgt Ion: 63 Resp: 180181
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.6 5.4



#38
 Bromodichloromethane
 Concen: 51.343 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU029908.D
 Acq: 08 Mar 2019 23:58

Tgt Ion: 83 Resp: 231337
 Ion Ratio Lower Upper
 83 100
 85 64.0 44.2 82.0
 127 9.1 8.3 12.5

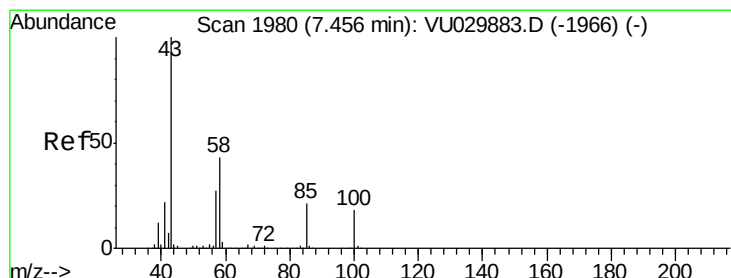
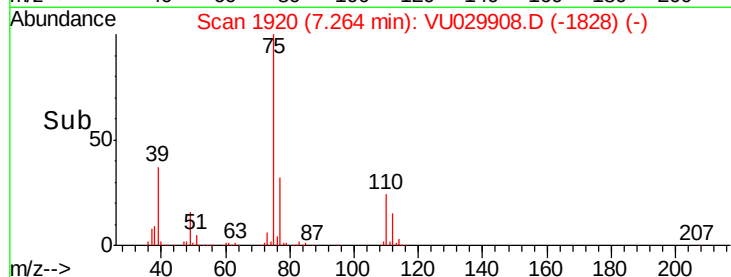
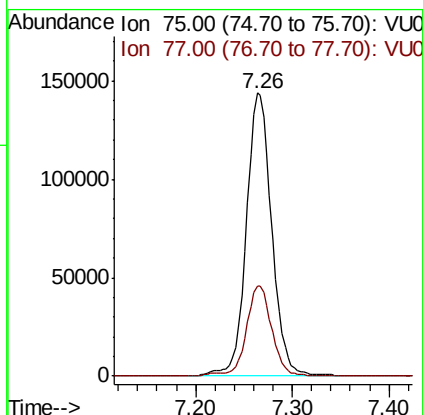
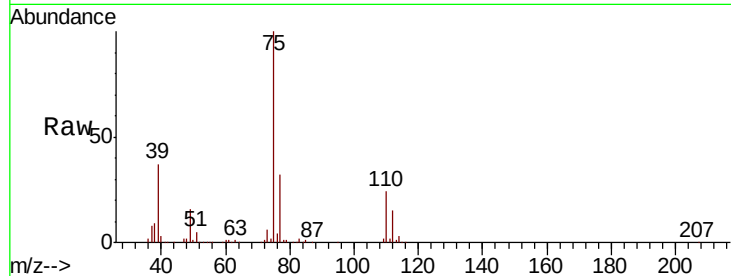




#39
 cis-1,3-Dichloropropene
 Concen: 48.659 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU029908.D
 Acq: 08 Mar 2019 23:58

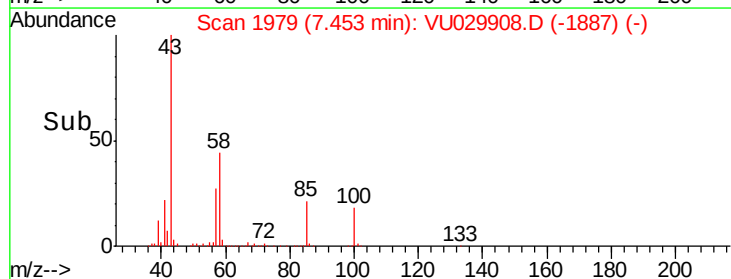
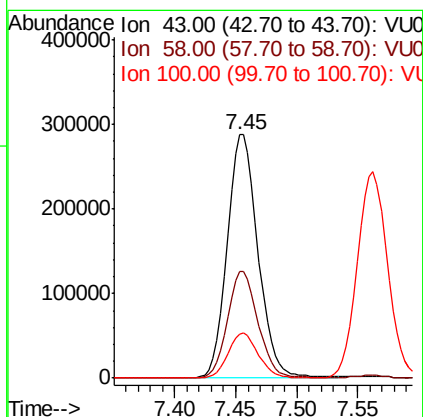
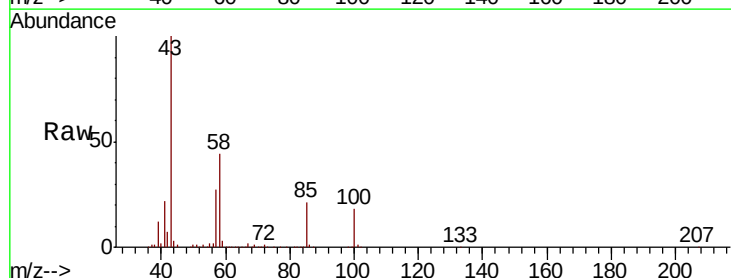
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

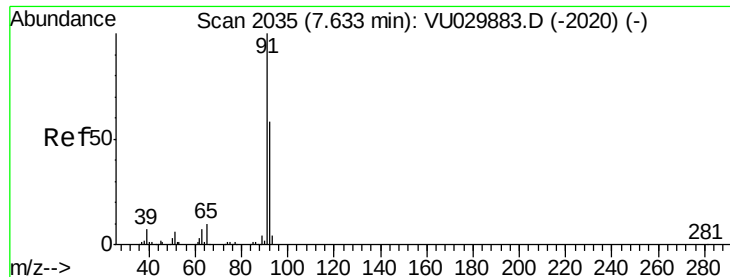
Tgt Ion: 75 Resp: 262377
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 108.249 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. -0.00 min
 Lab File: VU029908.D
 Acq: 08 Mar 2019 23:58

Tgt Ion: 43 Resp: 508747
 Ion Ratio Lower Upper
 43 100
 58 43.6 33.0 49.4
 100 18.2 14.5 21.7





#42

Toluene

Concen: 50.713 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

Instrument :

MSVOA_U

ClientSampleId :

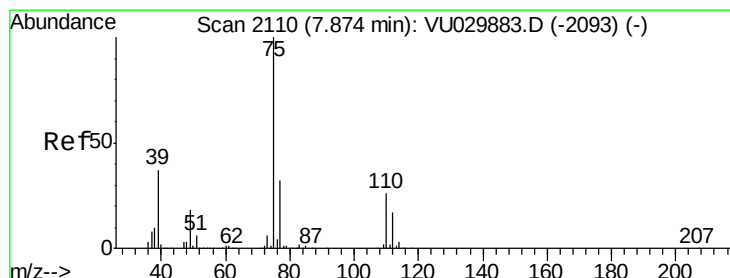
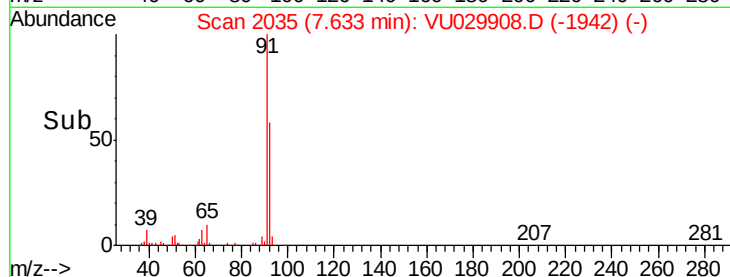
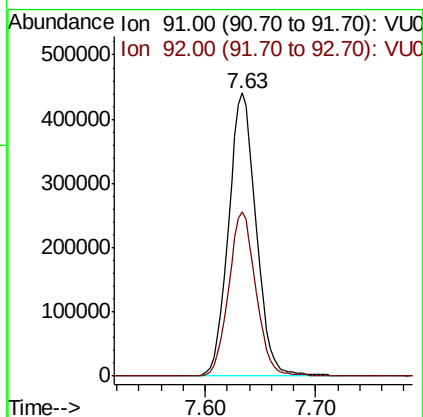
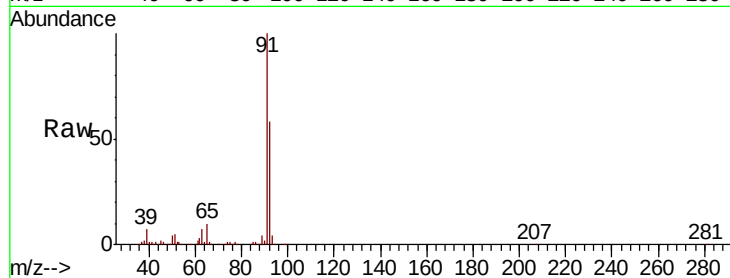
VSTD05054

Tgt Ion: 91 Resp: 763556

Ion Ratio Lower Upper

91 100

92 58.1 40.8 75.8



#44

trans-1,3-Dichloropropene

Concen: 46.847 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU029908.D

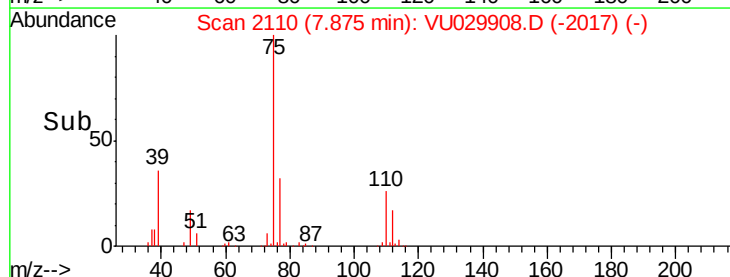
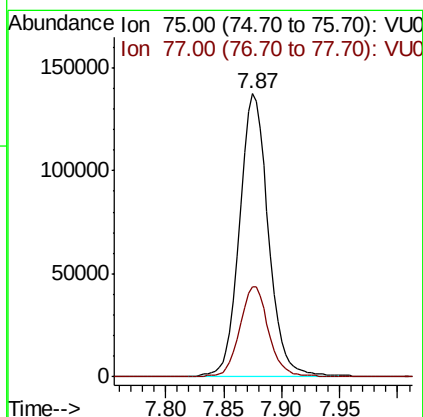
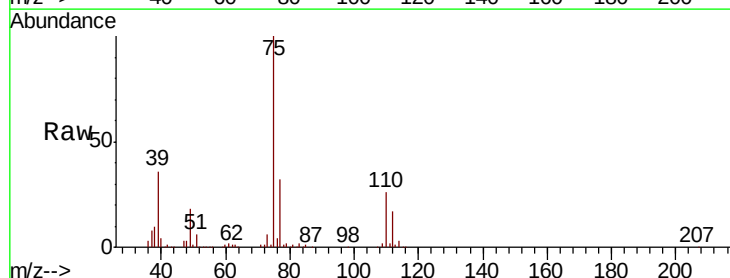
Acq: 08 Mar 2019 23:58

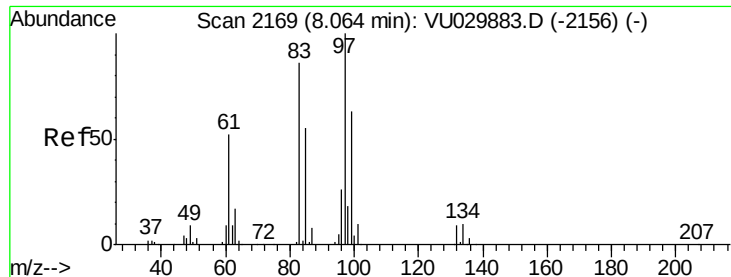
Tgt Ion: 75 Resp: 238069

Ion Ratio Lower Upper

75 100

77 31.9 22.1 41.1





#45

1,1,2-Trichloroethane

Concen: 52.111 ug/L

RT: 8.06 min Scan# 2169

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

Tgt Ion: 97 Resp: 185634

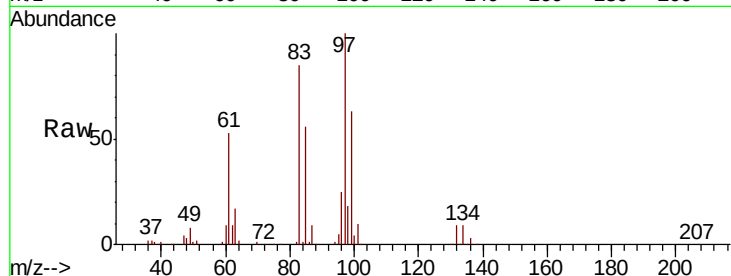
Ion Ratio Lower Upper

97 100

99 62.7 43.8 81.3

83 85.3 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

150000

100000

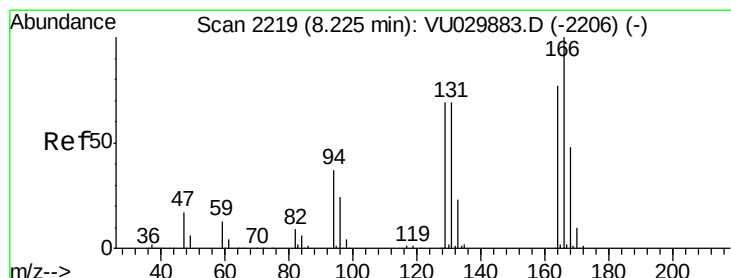
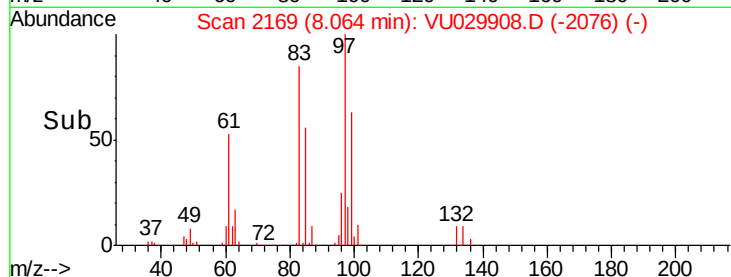
50000

0

8.06

8.00 8.05 8.10 8.15

Time-->



#46

Tetrachloroethene

Concen: 45.793 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

Tgt Ion:164 Resp: 153728

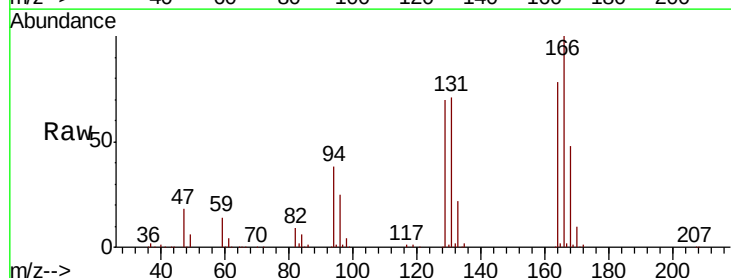
Ion Ratio Lower Upper

164 100

129 89.9 62.1 115.3

131 90.3 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

150000

100000

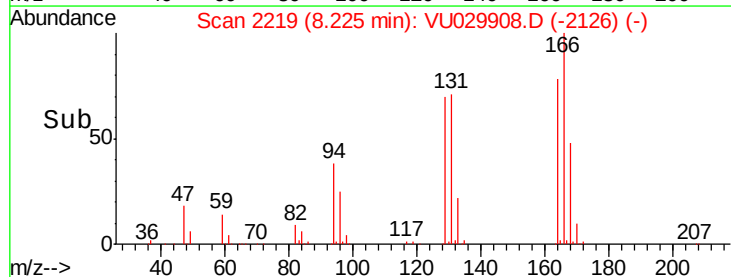
50000

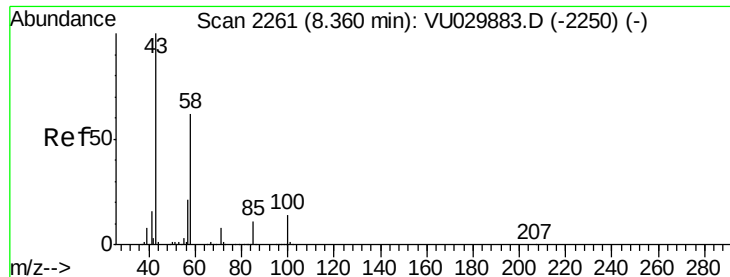
0

8.22

8.15 8.20 8.25 8.30 8.35

Time-->

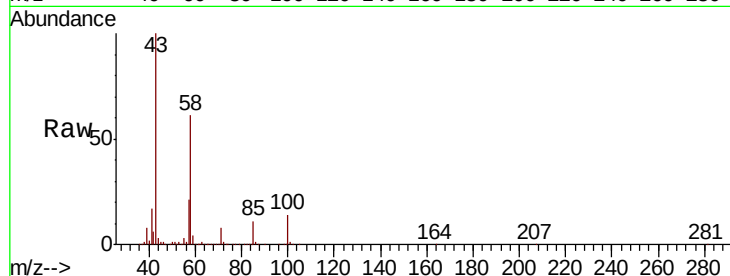




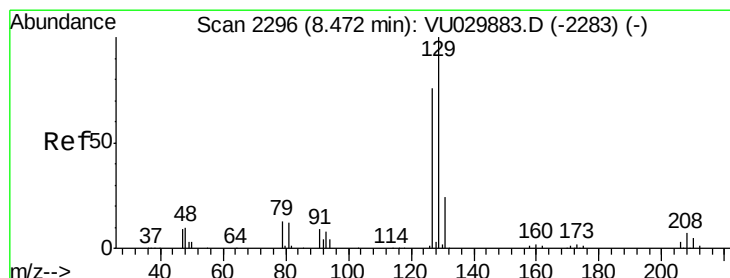
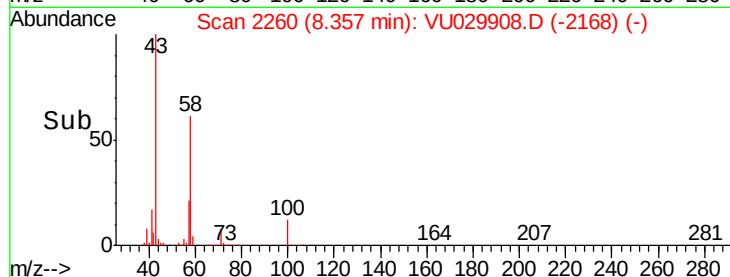
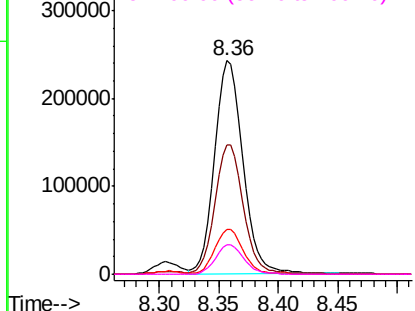
#48
2-Hexanone
Concen: 97.851 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. -0.00 min
Lab File: VU029908.D
Acq: 08 Mar 2019 23:58

Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

Tgt Ion: 43 Resp: 401740
Ion Ratio Lower Upper
43 100
58 60.7 46.4 69.6
57 20.8 15.7 23.5
100 13.7 10.9 16.3

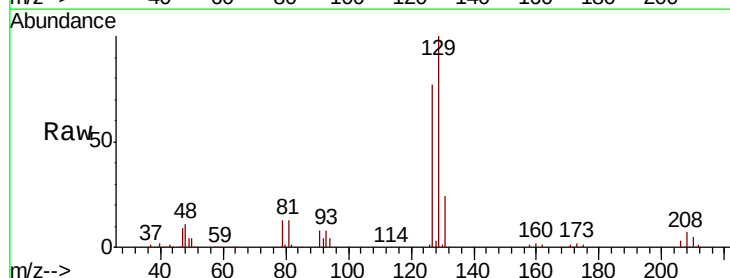


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

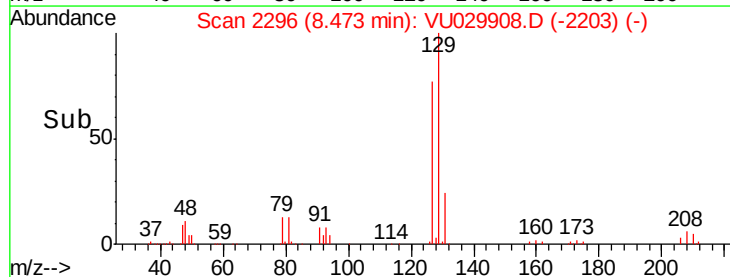
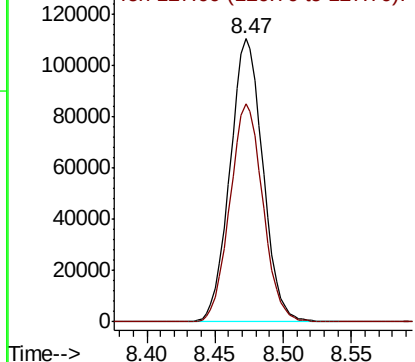


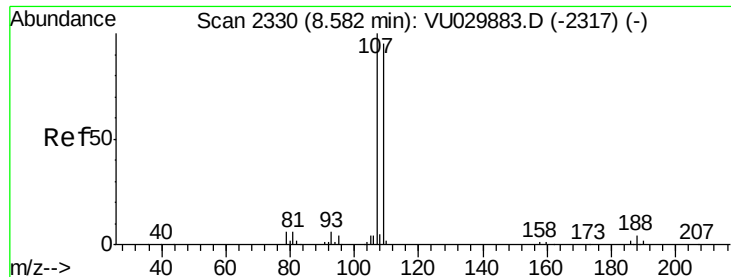
#49
Dibromochloromethane
Concen: 42.755 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU029908.D
Acq: 08 Mar 2019 23:58

Tgt Ion: 129 Resp: 184641
Ion Ratio Lower Upper
129 100
127 77.3 54.4 101.0



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





#50

1,2-Dibromoethane

Concen: 50.001 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

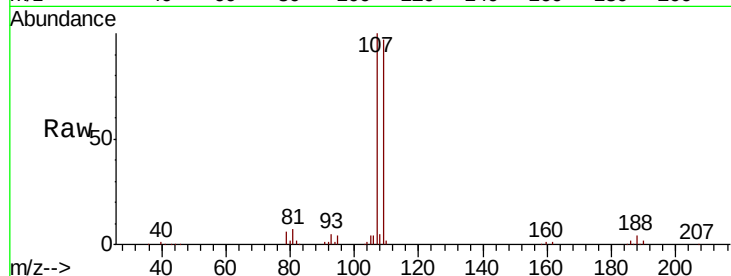
Tgt Ion:107 Resp: 197341

Ion Ratio Lower Upper

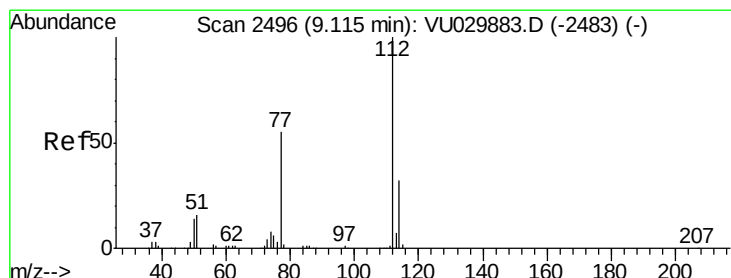
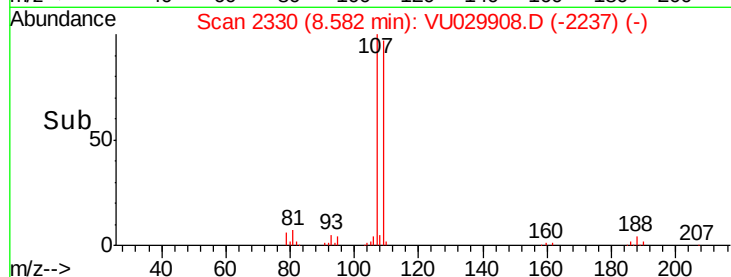
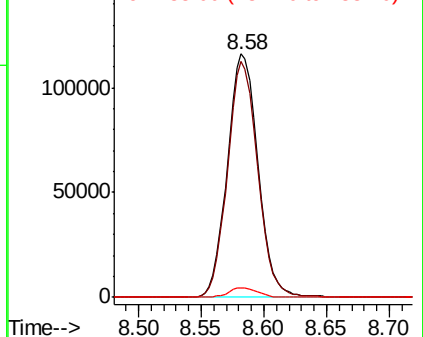
107 100

109 96.8 66.4 123.4

188 3.9 3.5 5.3



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 49.036 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

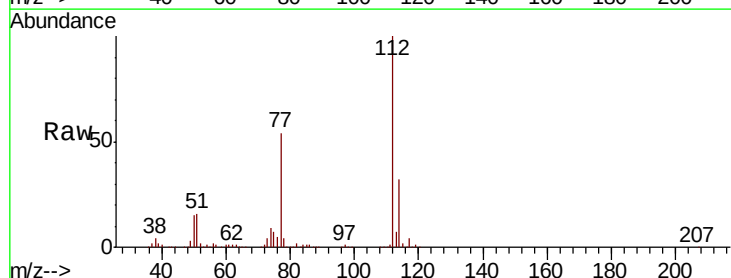
Tgt Ion:112 Resp: 506736

Ion Ratio Lower Upper

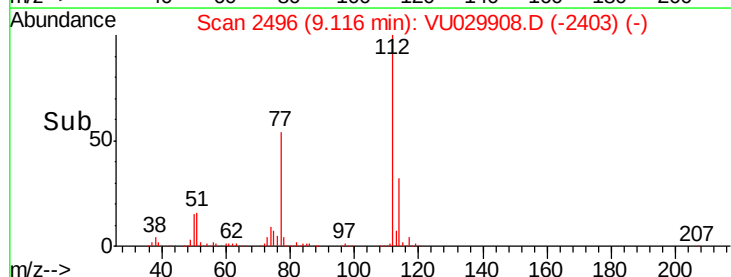
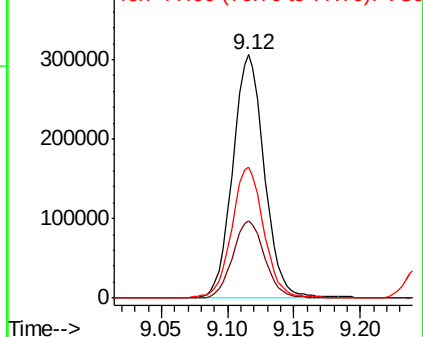
112 100

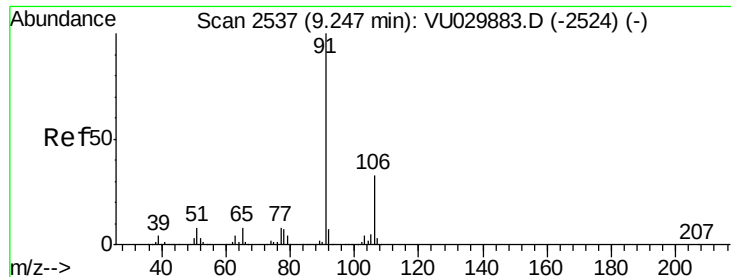
114 31.9 22.7 42.1

77 53.6 42.1 63.1



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 48.944 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

Instrument :

MSVOA_U

ClientSampleId :

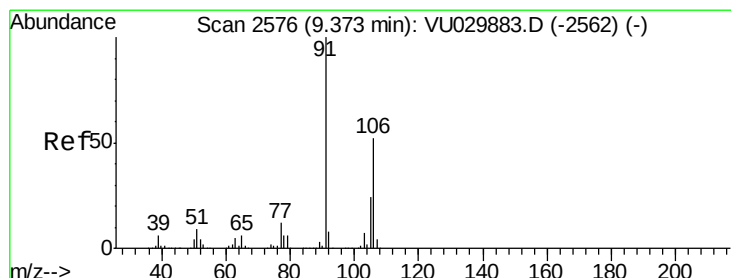
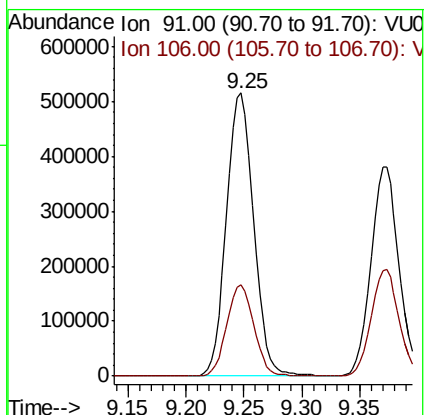
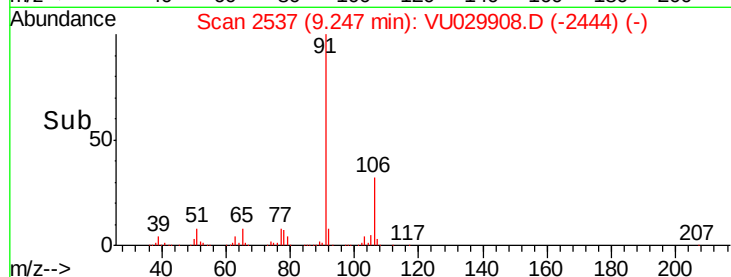
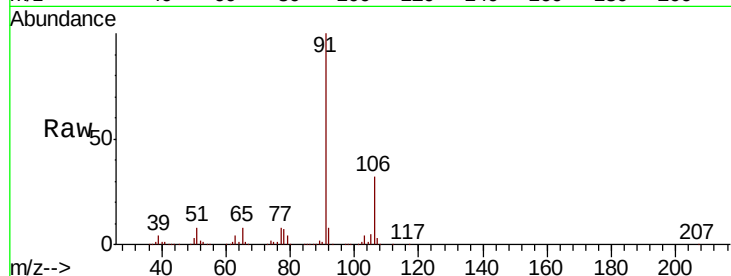
VSTD05054

Tgt Ion: 91 Resp: 836951

Ion Ratio Lower Upper

91 100

106 32.2 22.7 42.1



#53

m,p-Xylene

Concen: 47.391 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU029908.D

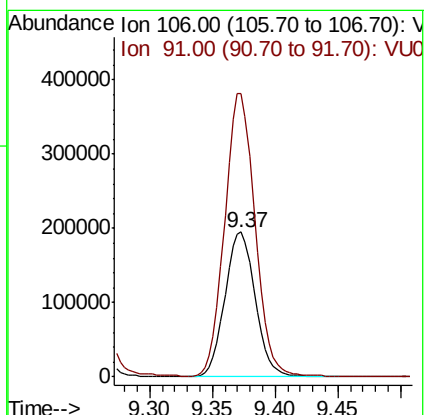
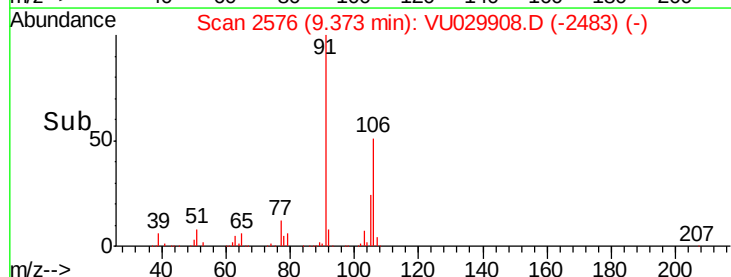
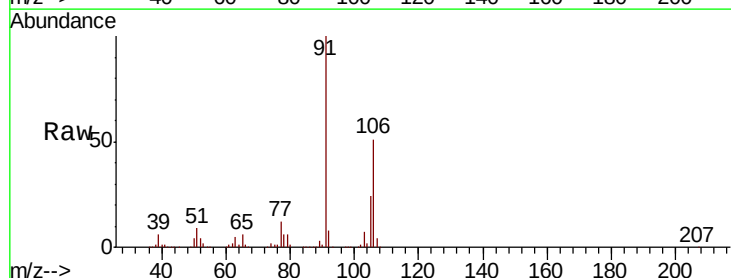
Acq: 08 Mar 2019 23:58

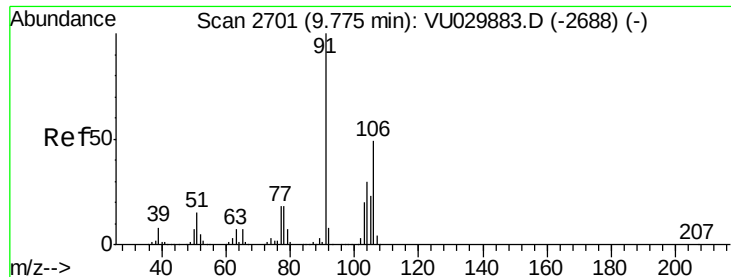
Tgt Ion: 106 Resp: 325306

Ion Ratio Lower Upper

106 100

91 195.6 135.3 251.3





#54

o-xylene

Concen: 47.005 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

Instrument :

MSVOA_U

ClientSampleId :

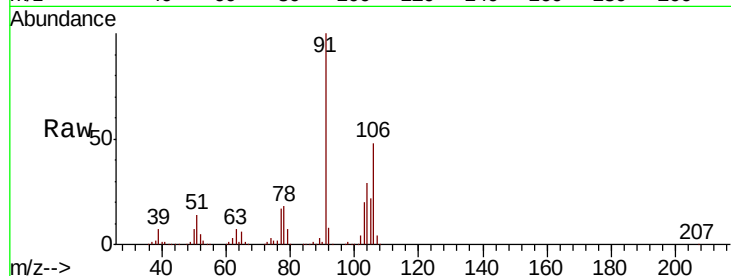
VSTD05054

Tgt Ion:106 Resp: 324097

Ion Ratio Lower Upper

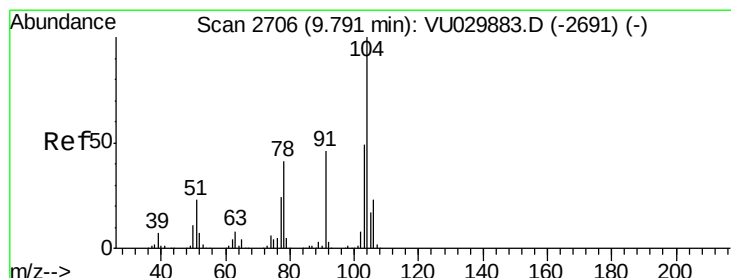
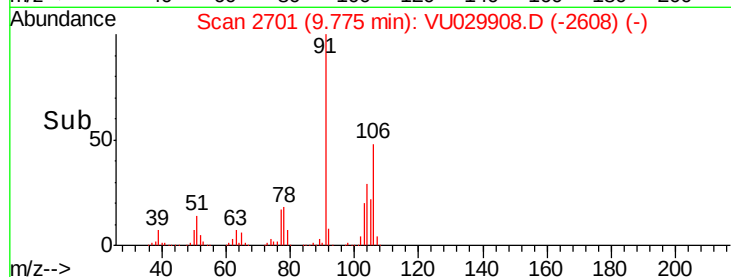
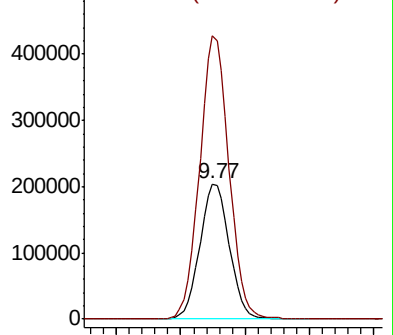
106 100

91 209.7 144.5 268.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 46.298 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU029908.D

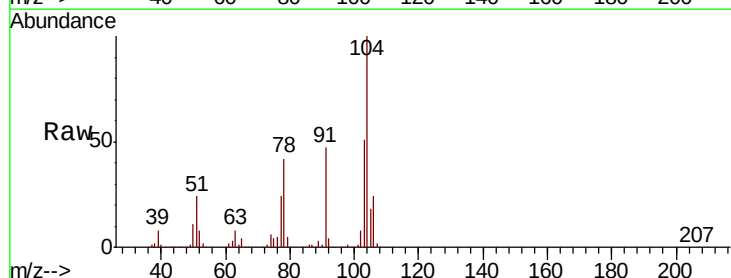
Acq: 08 Mar 2019 23:58

Tgt Ion:104 Resp: 538889

Ion Ratio Lower Upper

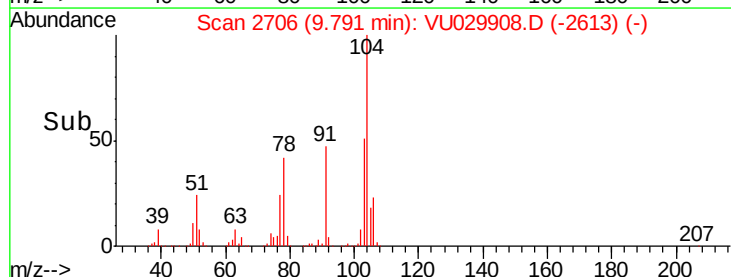
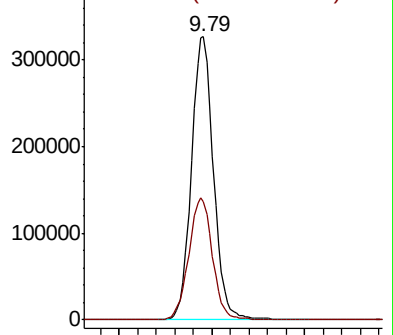
104 100

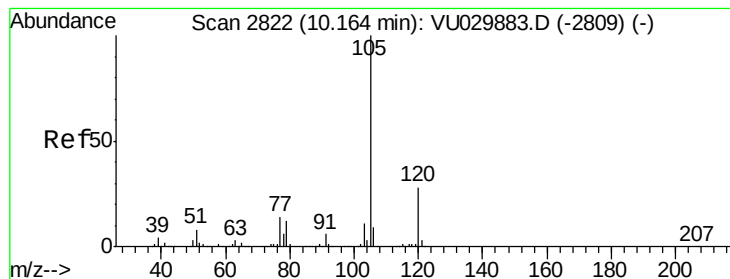
78 41.8 31.3 58.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 46.579 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

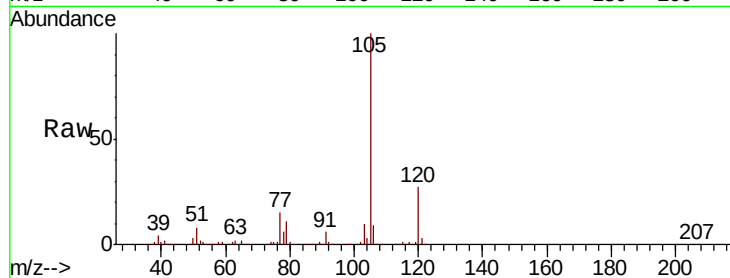
Tgt Ion: 105 Resp: 840409

Ion Ratio Lower Upper

105 100

120 27.1 21.9 32.9

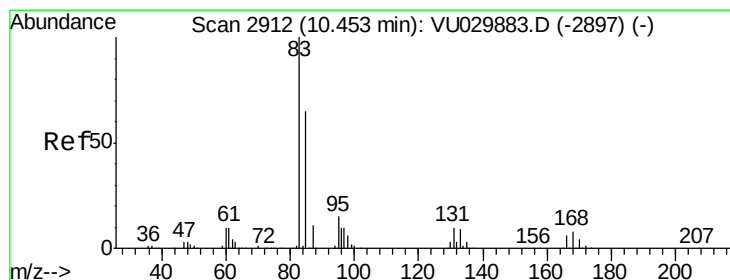
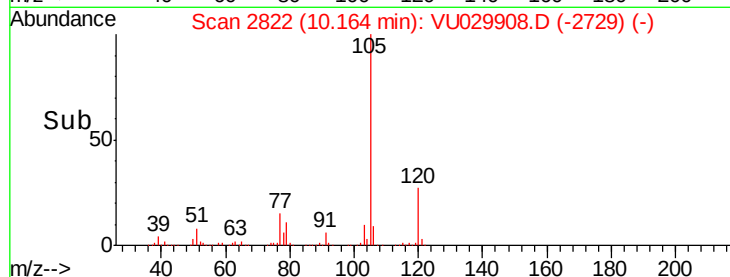
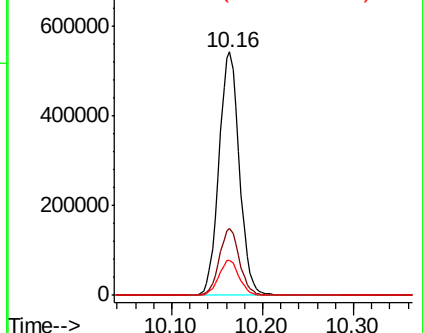
77 14.4 11.7 17.5



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: 51.543 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

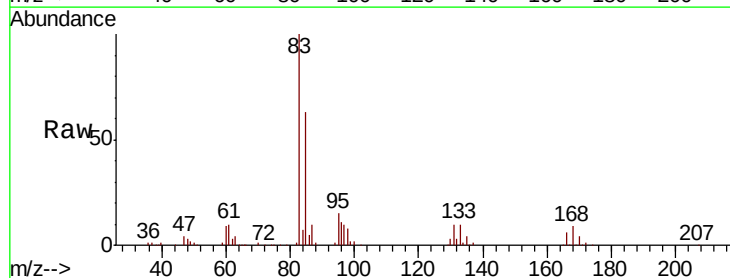
Tgt Ion: 83 Resp: 324687

Ion Ratio Lower Upper

83 100

85 62.8 45.5 84.5

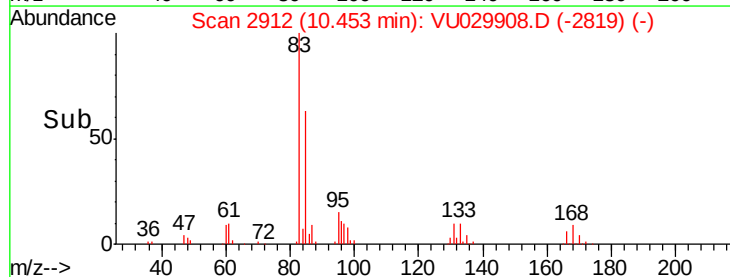
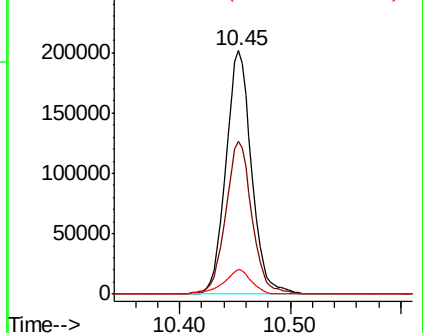
131 9.9 8.6 12.8

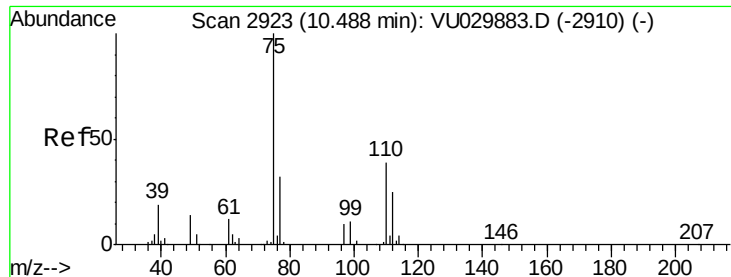


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

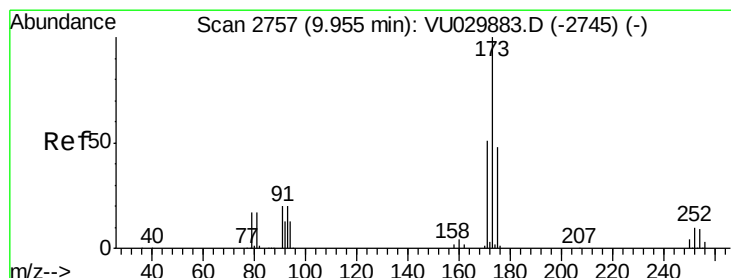
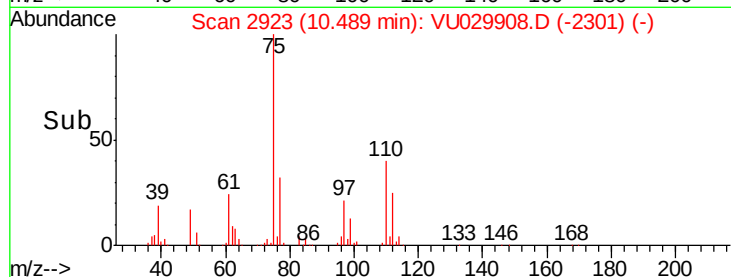
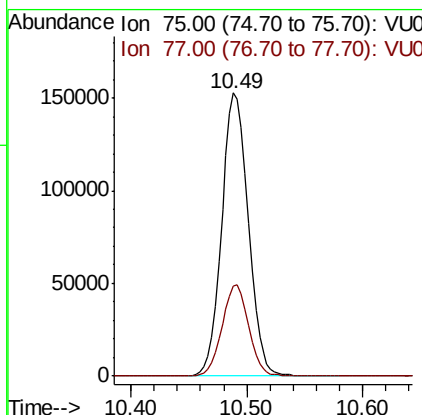
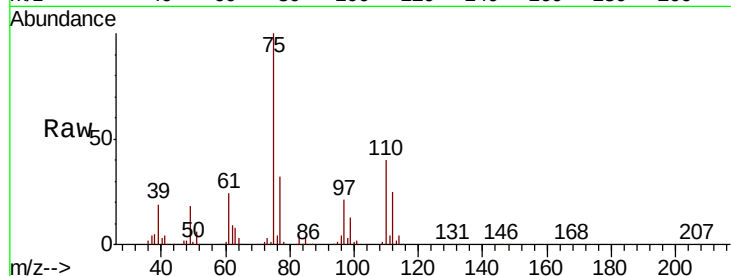




#59
 1,2,3-Trichloropropane
 Concen: 51.184 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU029908.D
 Acq: 08 Mar 2019 23:58

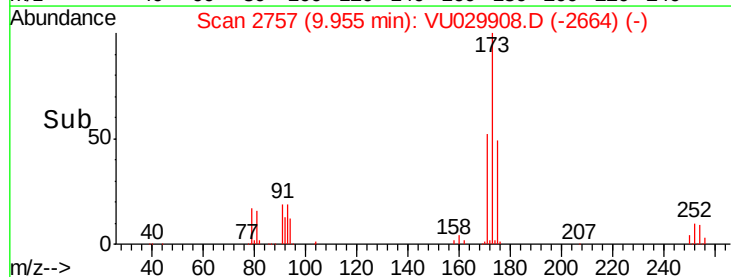
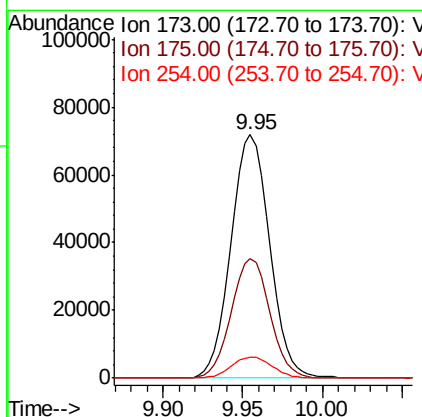
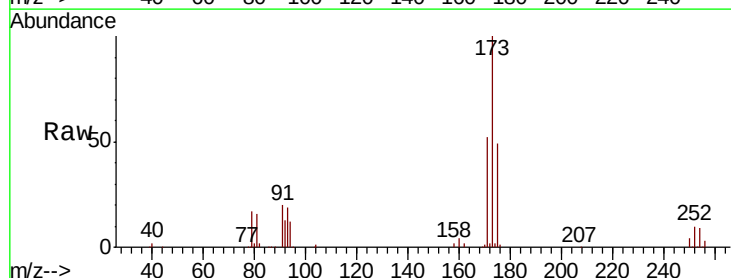
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

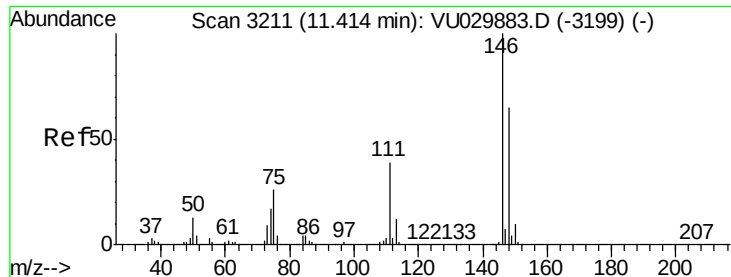
Tgt Ion: 75 Resp: 243903
 Ion Ratio Lower Upper
 75 100
 77 32.2 25.7 38.5



#61
 Bromoform
 Concen: 33.158 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU029908.D
 Acq: 08 Mar 2019 23:58

Tgt Ion: 173 Resp: 118308
 Ion Ratio Lower Upper
 173 100
 175 49.0 39.0 58.4
 254 9.0 8.1 12.1





#62

1,3-Dichlorobenzene

Concen: 49.407 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

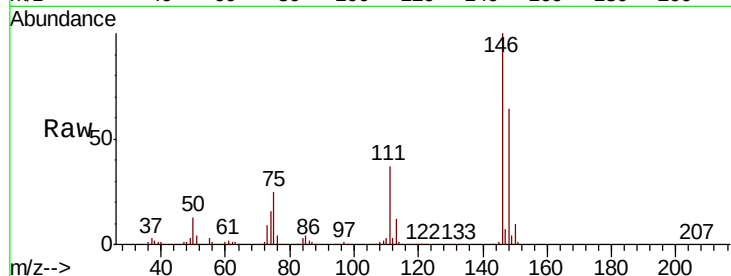
Tgt Ion:146 Resp: 417380

Ion Ratio Lower Upper

146 100

111 36.8 26.7 49.5

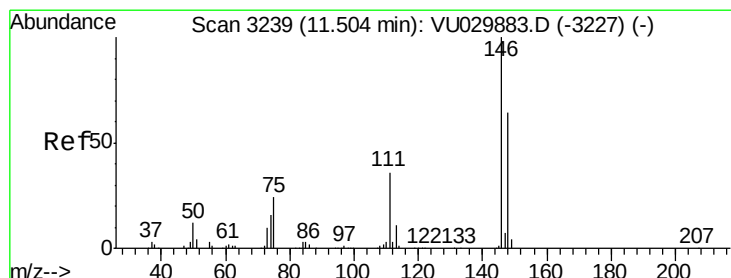
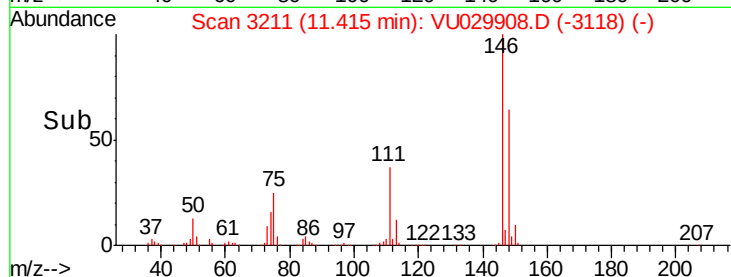
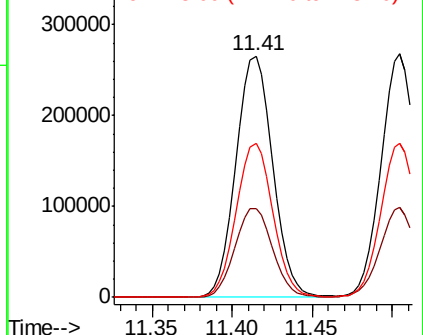
148 63.9 45.9 85.3



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: 49.149 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

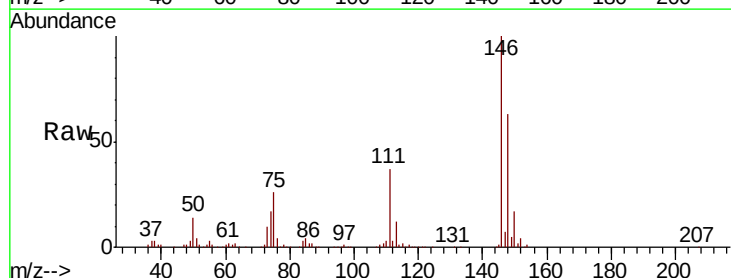
Tgt Ion:146 Resp: 417838

Ion Ratio Lower Upper

146 100

111 36.7 25.1 46.5

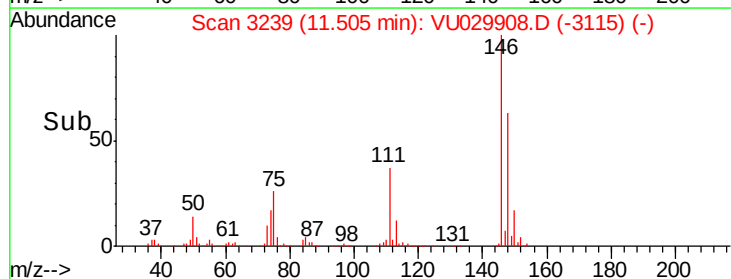
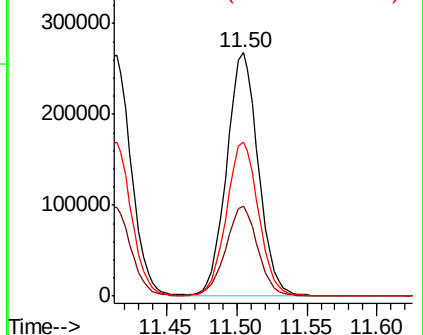
148 63.1 45.0 83.6

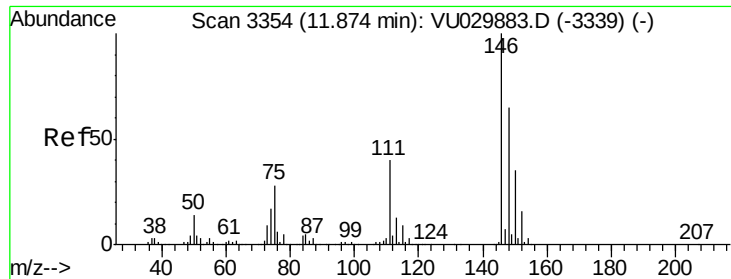


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

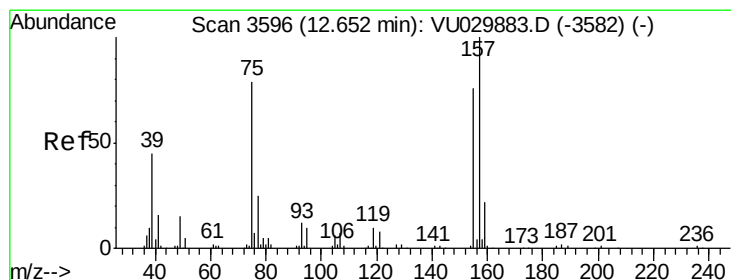
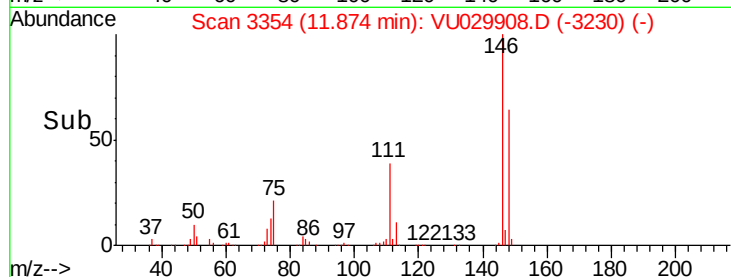
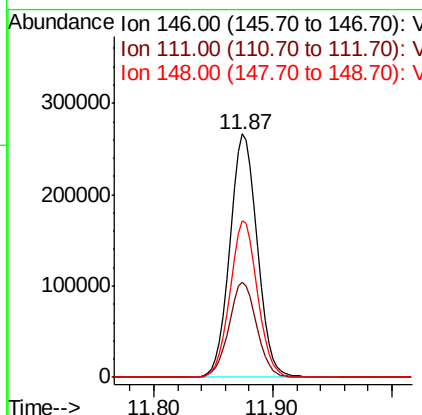
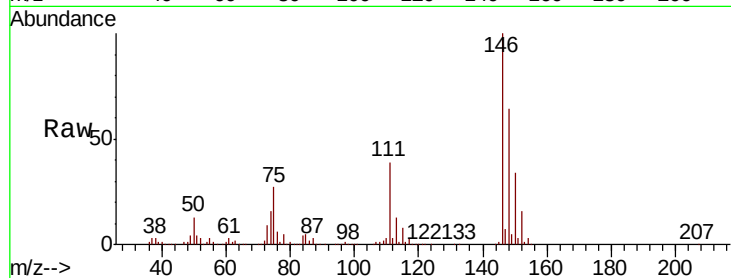




#65
 1,2-Dichlorobenzene
 Concen: 48.198 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU029908.D
 Acq: 08 Mar 2019 23:58

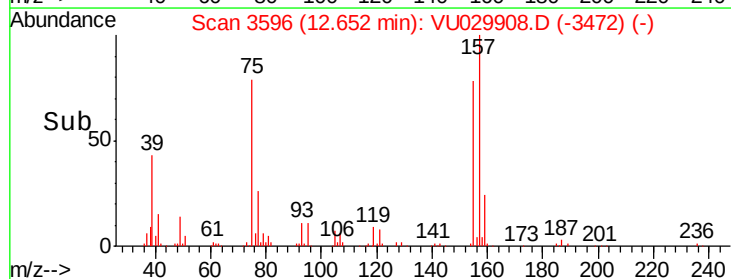
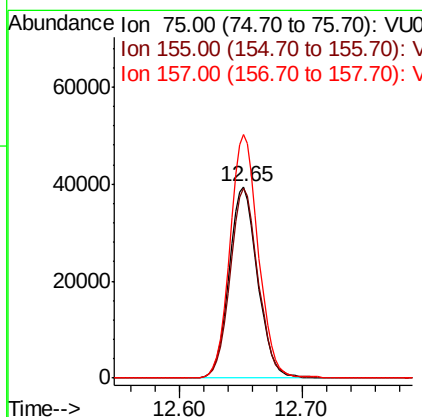
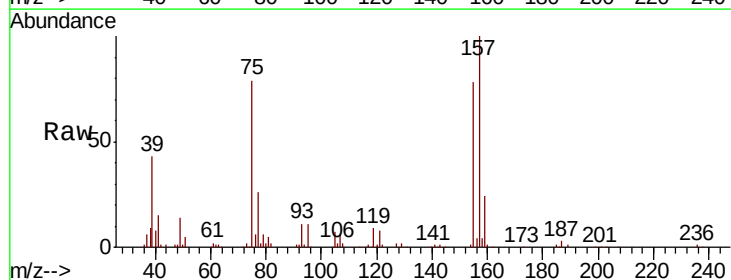
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

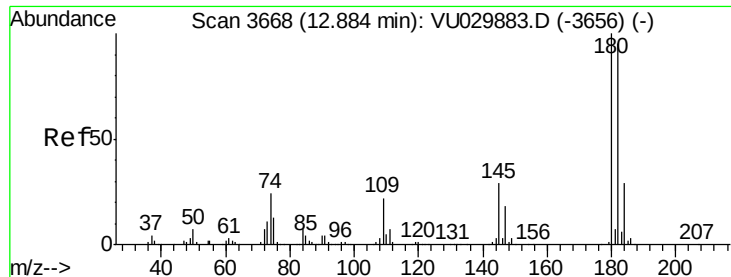
Tgt Ion:146 Resp: 425022
 Ion Ratio Lower Upper
 146 100
 111 39.3 31.2 46.8
 148 64.4 51.6 77.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 46.982 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU029908.D
 Acq: 08 Mar 2019 23:58

Tgt Ion: 75 Resp: 64471
 Ion Ratio Lower Upper
 75 100
 155 99.4 79.5 119.3
 157 127.4 103.4 155.0

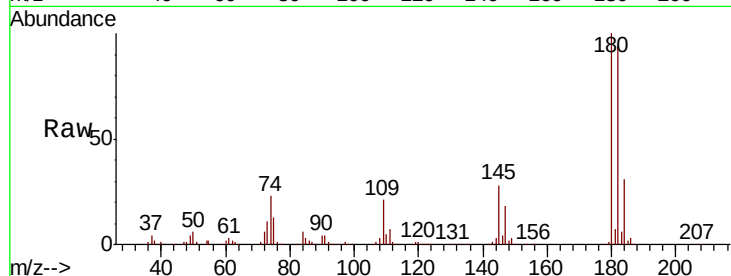




#67
 1,3,5-Trichlorobenzene
 Concen: 48.947 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU029908.D
 Acq: 08 Mar 2019 23:58

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

Tgt Ion:	180	Resp:	315537
Ion	Ratio	Lower	Upper
180	100		
182	95.0	77.9	116.9
184	30.7	24.5	36.7
145	27.9	22.4	33.6



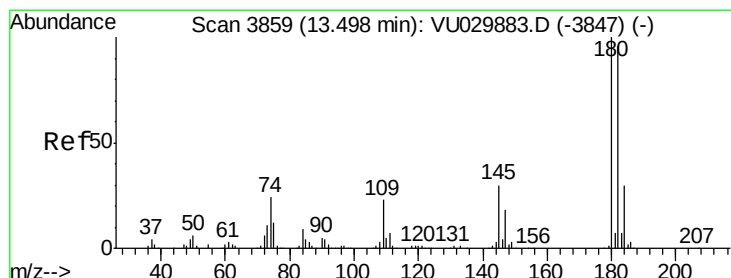
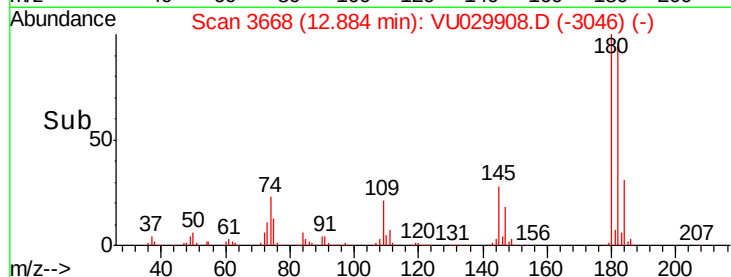
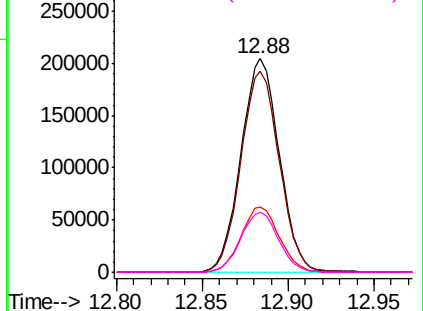
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

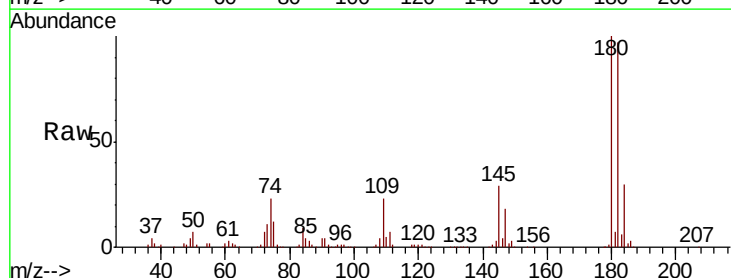
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 52.663 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU029908.D
 Acq: 08 Mar 2019 23:58

Tgt Ion:	180	Resp:	293635
Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.2	114.2
145	28.7	22.7	34.1

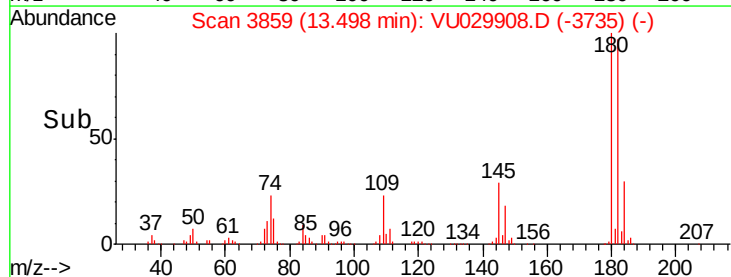
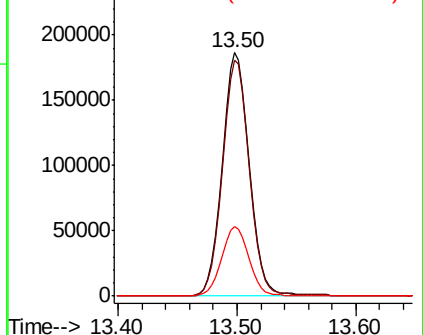


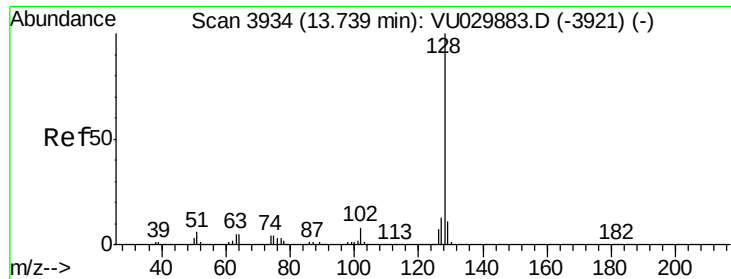
Abundance

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: 58.175 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

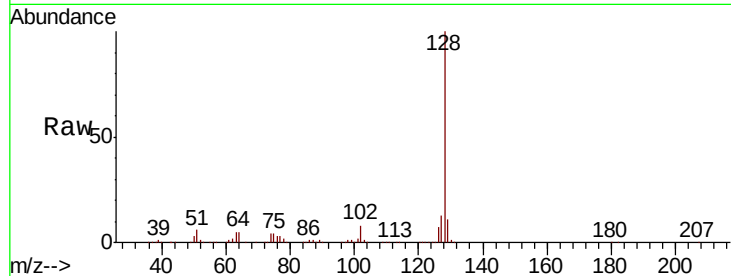
Tgt Ion:128 Resp: 997014

Ion Ratio Lower Upper

128 100

127 12.5 10.2 15.4

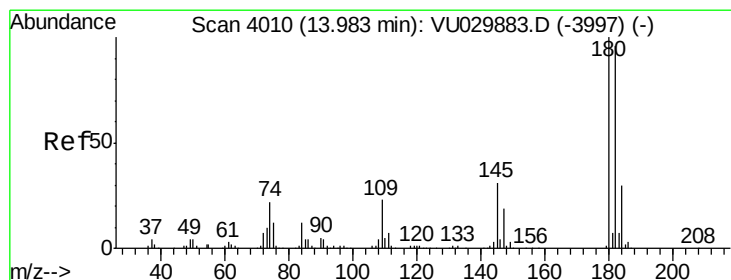
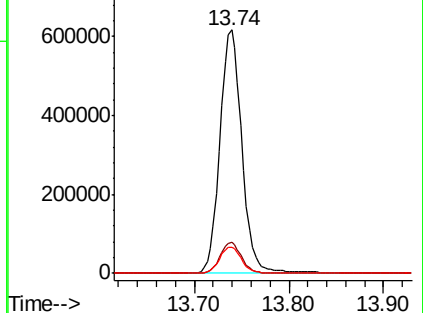
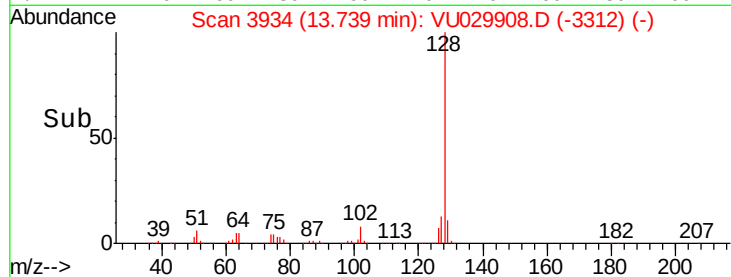
129 10.9 8.5 12.7



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: 52.429 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU029908.D

Acq: 08 Mar 2019 23:58

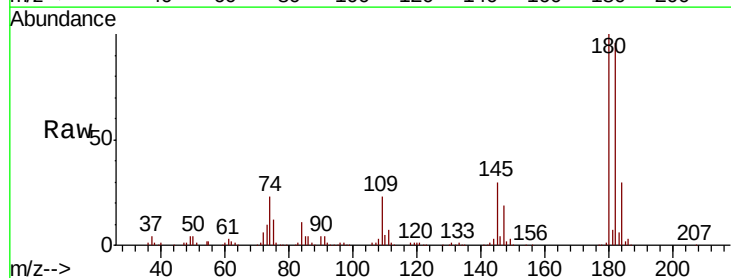
Tgt Ion:180 Resp: 310433

Ion Ratio Lower Upper

180 100

182 95.9 76.8 115.2

145 30.5 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

