

Data File : VU030224.D
Acq On : 20 Mar 2019 15:54
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Quant Time: Mar 22 01:05:11 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 22 01:01:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	569101	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	556120	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	288924	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	152702	39.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	79.36%
7) Chloroethane-d5	1.68	69	127663	41.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	82.98%
11) 1,1-Dichloroethene-d2	2.27	63	299446	42.65	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.30%
21) 2-Butanone-d5	4.17	46	263334	92.24	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.24%
24) Chloroform-d	4.65	84	304191	43.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.14%
26) 1,2-Dichloroethane-d4	5.31	65	173804	43.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.30%
32) Benzene-d6	5.34	84	626449	42.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.50%
36) 1,2-Dichloropropane-d6	6.33	67	196234	43.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	86.56%
41) Toluene-d8	7.56	98	587503	42.64	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.28%
43) trans-1,3-Dichloropropene-	7.85	79	96613	43.76	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.52%
47) 2-Hexanone-d5	8.31	63	218545	92.94	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	92.94%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	313186	45.03	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	90.06%
64) 1,2-Dichlorobenzene-d4	11.86	152	248510	42.84	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.68%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	242930	50.418	ug/L	100
3) Chloromethane	1.33	50	235147	50.418	ug/L	100
5) Vinyl chloride	1.40	62	254995	51.504	ug/L	100
6) Bromomethane	1.62	94	142278	53.103	ug/L	99
8) Chloroethane	1.70	64	147810	50.495	ug/L	99
9) Trichlorofluoromethane	1.88	101	325869	51.828	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	197156	51.568	ug/L	99
12) 1,1-Dichloroethene	2.28	96	194674	51.273	ug/L	93
13) Acetone	2.32	43	275912	92.491	ug/L	99
14) Carbon disulfide	2.48	76	564392	49.769	ug/L	99
15) Methyl Acetate	2.61	43	225133	51.897	ug/L	99
16) Methylene chloride	2.70	84	221422	51.420	ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	204788	51.181	ug/L	99
18) Methyl tert-butyl Ether	3.00	73	613017	53.260	ug/L	99
19) 1,1-Dichloroethane	3.44	63	359395	52.221	ug/L	99
20) cis-1,2-Dichloroethene	4.23	96	233795	53.330	ug/L	98
22) 2-Butanone	4.26	43	358370	102.215	ug/L	97

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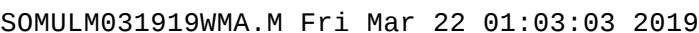
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

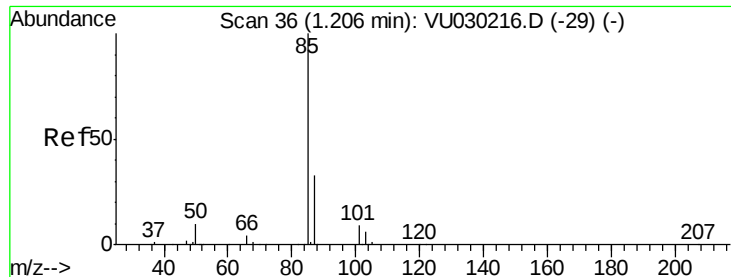
Quant Time: Mar 22 01:05:11 2019
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Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	122461	52.193	ug/L	98
25) Chloroform	4.67	83	371042	51.749	ug/L	99
27) 1,2-Dichloroethane	5.40	62	261952	51.545	ug/L	98
29) Cyclohexane	4.99	56	324008	53.622	ug/L	98
30) 1,1,1-Trichloroethane	4.91	97	314717	52.511	ug/L	98
31) Carbon tetrachloride	5.13	117	283795	53.487	ug/L	97
33) Benzene	5.39	78	855372	53.311	ug/L	100
34) Trichloroethene	6.18	95	218800	51.738	ug/L	98
35) Methylcyclohexane	6.41	83	352885	53.214	ug/L	99
37) 1,2-Dichloropropane	6.43	63	219267	53.360	ug/L	100
38) Bromodichloromethane	6.75	83	280068	53.010	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	351788	53.359	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	590941	104.638	ug/L	99
42) Toluene	7.63	91	941064	53.887	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	308525	54.081	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	221206	52.442	ug/L	100
46) Tetrachloroethene	8.23	164	188028	52.624	ug/L	97
48) 2-Hexanone	8.36	43	485172	103.507	ug/L	100
49) Dibromochloromethane	8.47	129	247401	52.304	ug/L	99
50) 1,2-Dibromoethane	8.58	107	245286	52.451	ug/L	100
51) Chlorobenzene	9.12	112	599897	51.921	ug/L	100
52) Ethylbenzene	9.25	91	1011442	53.331	ug/L	100
53) m,p-Xylene	9.37	106	396708	54.292	ug/L	99
54) o-xylene	9.77	106	390830	54.412	ug/L	99
55) Styrene	9.79	104	665868	54.714	ug/L	99
56) Isopropylbenzene	10.16	105	1004065	54.068	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	377474	52.481	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	283642	51.072	ug/L	100
61) Bromoform	9.95	173	197644	52.972	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	475969	51.635	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	481793	50.388	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	487421	51.754	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	81141	51.531	ug/L	99
67) 1,3,5-Trichlorobenzene	12.88	180	377010	52.332	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	325049	51.022	ug/L	100
69) Naphthalene	13.74	128	1014020	50.168	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	341804	51.419	ug/L	98

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

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#2

Dichlorodifluoromethane

Concen: 50.418 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU030224.D

Acq: 20 Mar 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

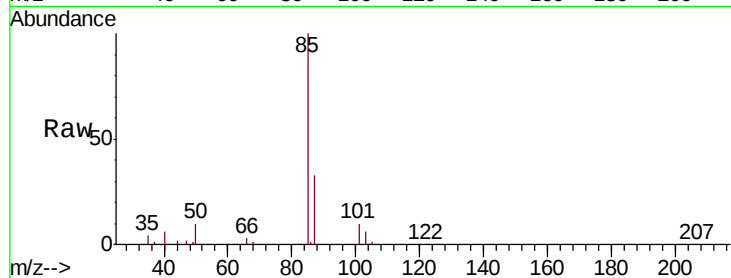
VSTD05048

Tgt Ion: 85 Resp: 242930

Ion Ratio Lower Upper

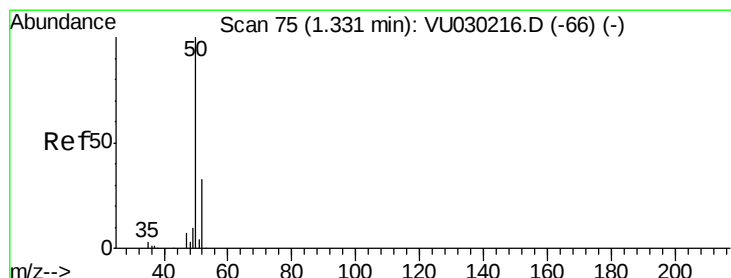
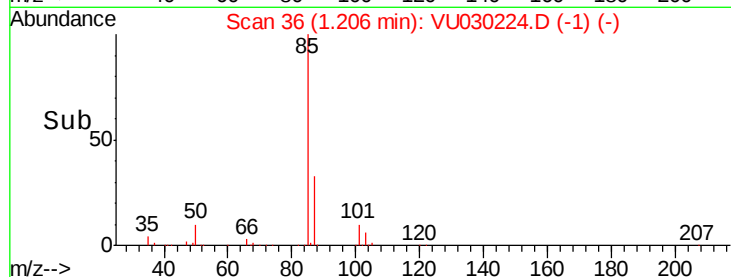
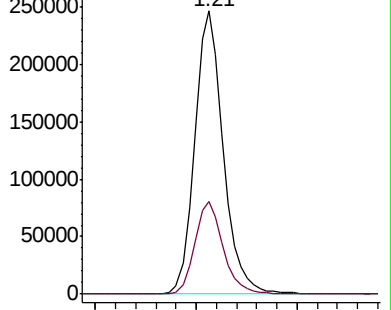
85 100

87 32.6 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU030224.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU030224.D (-1) (-)



#3

Chloromethane

Concen: 50.418 ug/L

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU030224.D

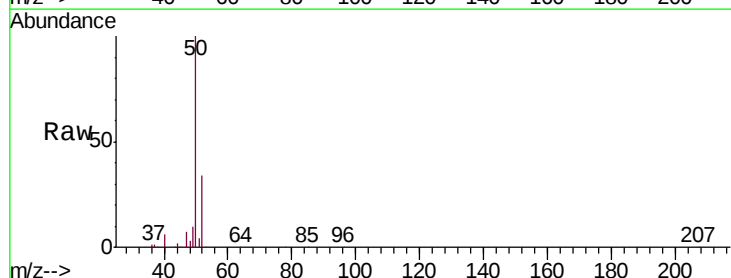
Acq: 20 Mar 2019 15:54

Tgt Ion: 50 Resp: 235147

Ion Ratio Lower Upper

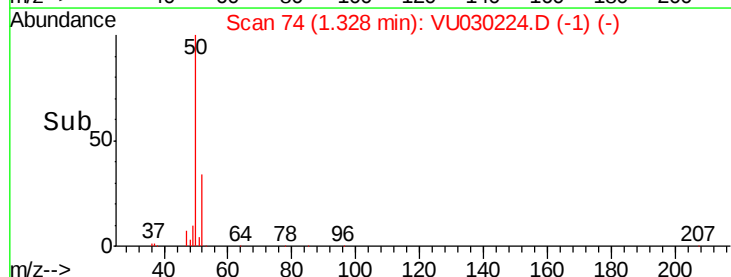
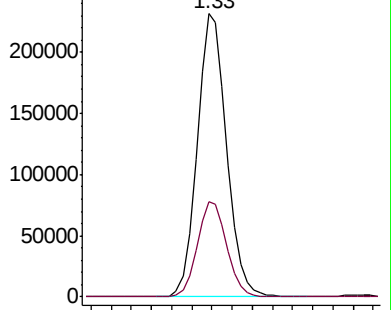
50 100

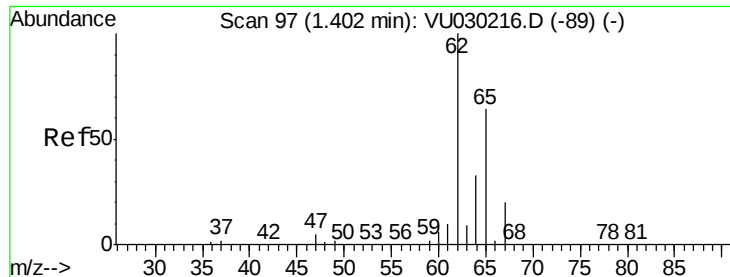
52 33.6 23.4 43.6



Abundance Ion 50.00 (49.70 to 50.70): VU030224.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU030224.D (-1) (-)





#5

Vinyl chloride

Concen: 51.504 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU030224.D

Acq: 20 Mar 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

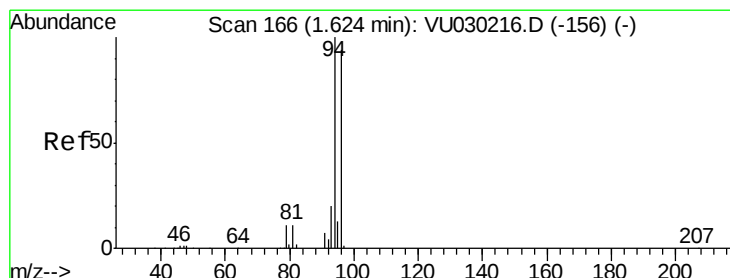
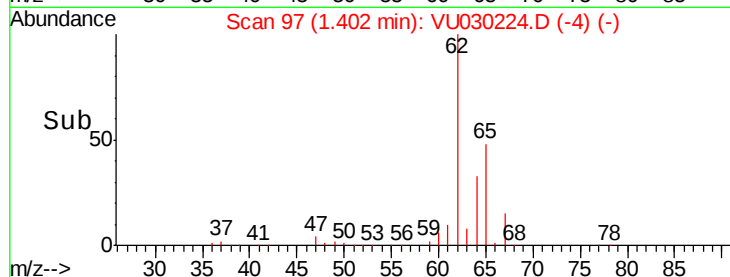
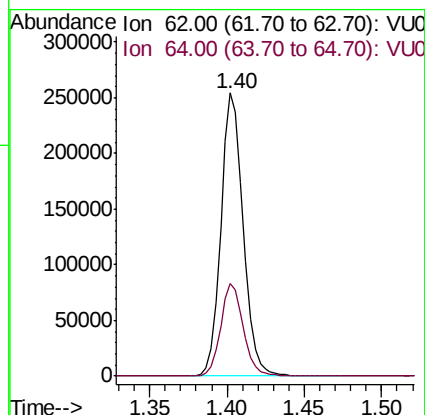
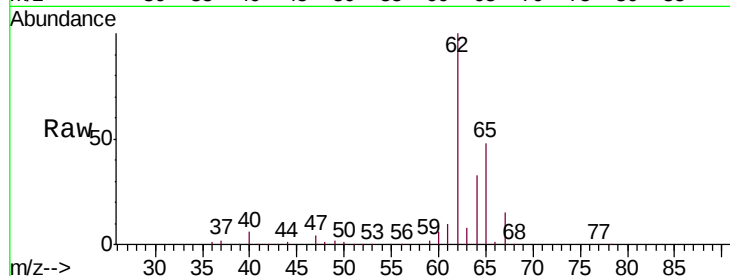
VSTD05048

Tgt Ion: 62 Resp: 254995

Ion Ratio Lower Upper

62 100

64 32.7 22.9 42.5



#6

Bromomethane

Concen: 53.103 ug/L

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU030224.D

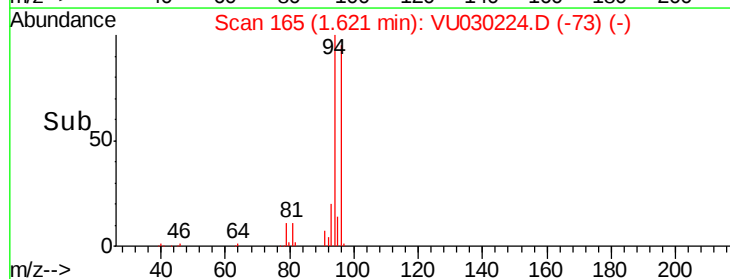
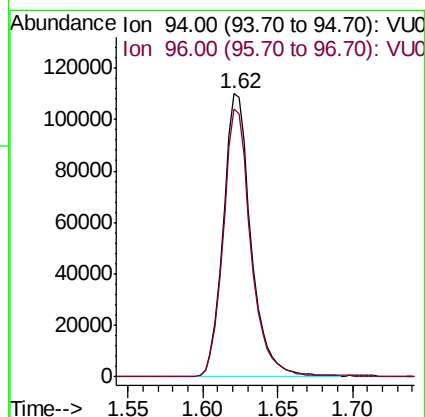
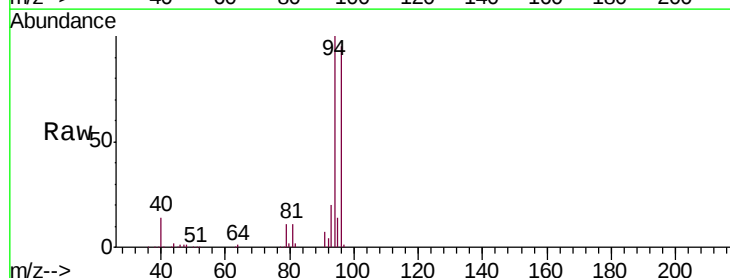
Acq: 20 Mar 2019 15:54

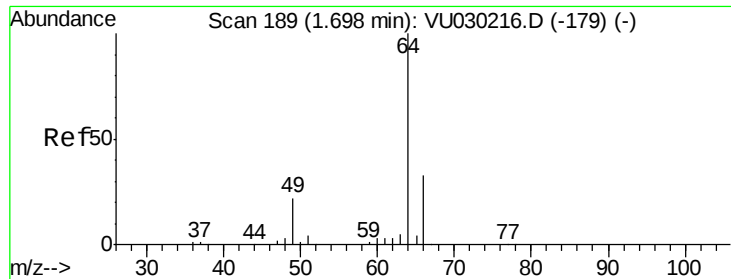
Tgt Ion: 94 Resp: 142278

Ion Ratio Lower Upper

94 100

96 94.5 66.6 123.6

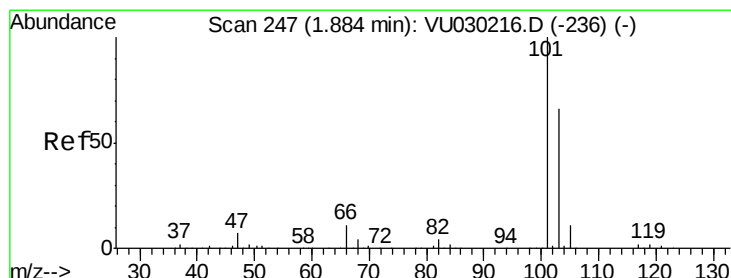
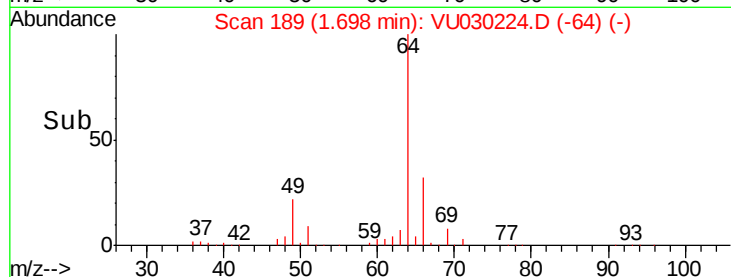
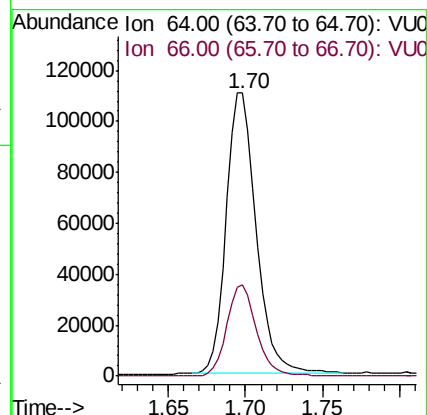
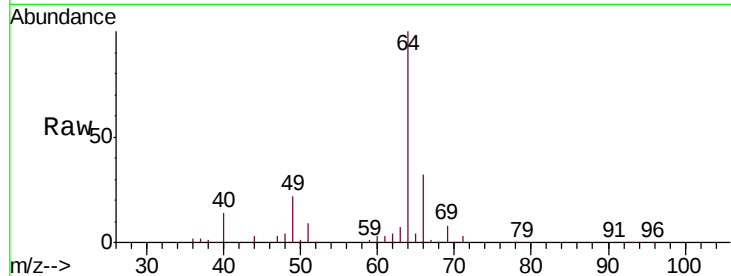




#8
Chloroethane
Concen: 50.495 ug/L
RT: 1.70 min Scan# 189
Delta R.T. 0.00 min
Lab File: VU030224.D
Acq: 20 Mar 2019 15:54

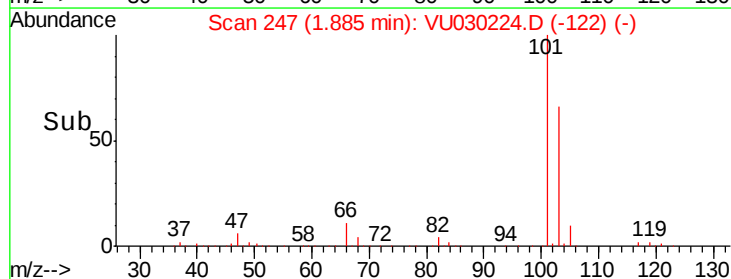
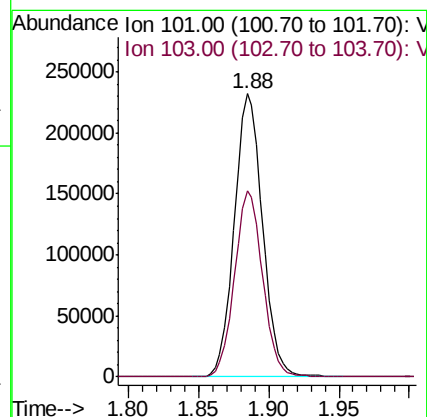
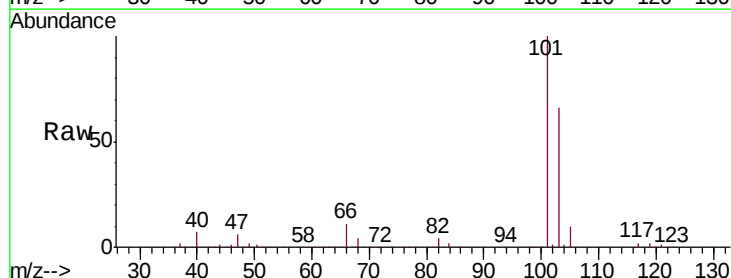
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

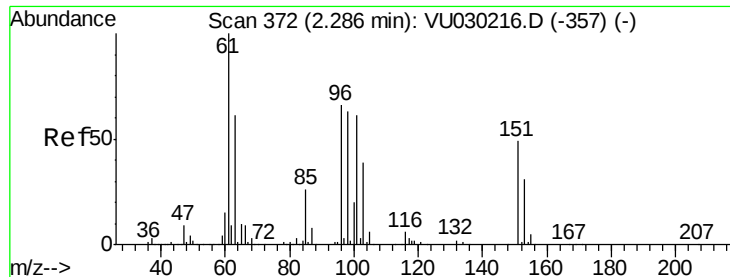
Tgt Ion: 64 Resp: 147810
Ion Ratio Lower Upper
64 100
66 32.4 23.2 43.0



#9
Trichlorofluoromethane
Concen: 51.828 ug/L
RT: 1.88 min Scan# 247
Delta R.T. 0.00 min
Lab File: VU030224.D
Acq: 20 Mar 2019 15:54

Tgt Ion: 101 Resp: 325869
Ion Ratio Lower Upper
101 100
103 65.1 51.6 77.4





#10

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

Concen: 51.568 ug/L

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU030224.D

Acq: 20 Mar 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

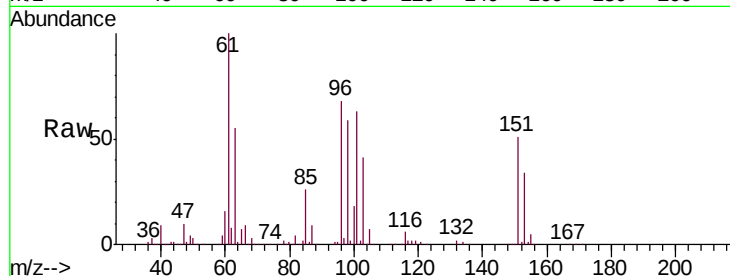
Tgt Ion: 101 Resp: 197156

Ion Ratio Lower Upper

101 100

85 41.8 32.5 48.7

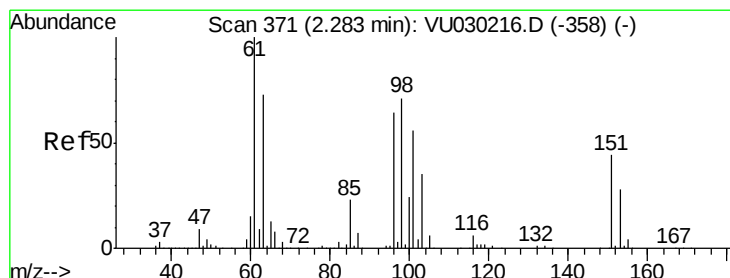
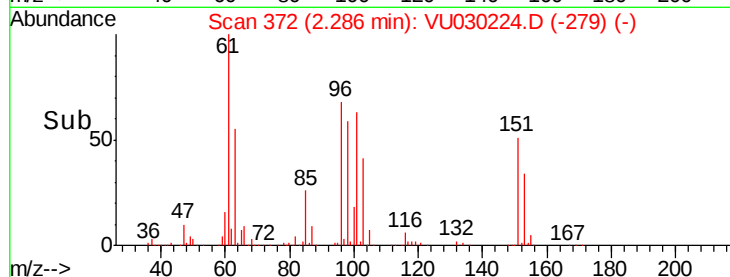
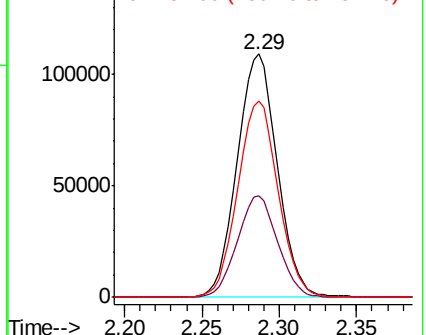
151 81.2 64.7 97.1



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: 51.273 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU030224.D

Acq: 20 Mar 2019 15:54

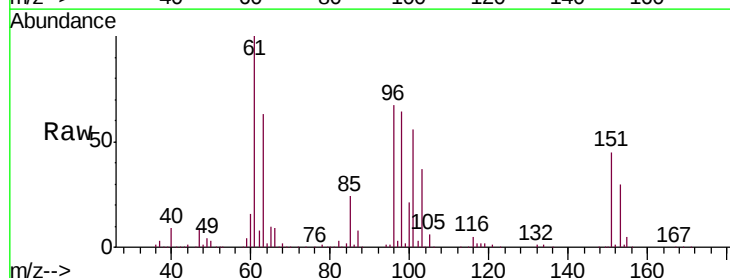
Tgt Ion: 96 Resp: 194674

Ion Ratio Lower Upper

96 100

61 149.0 104.6 194.2

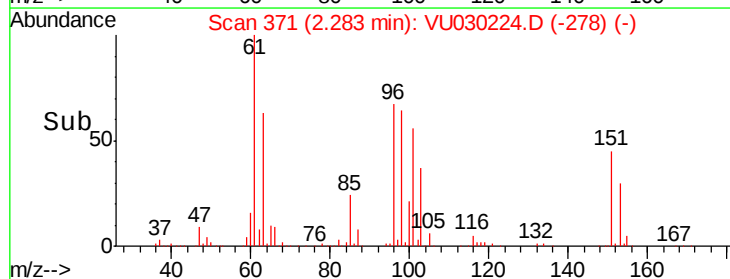
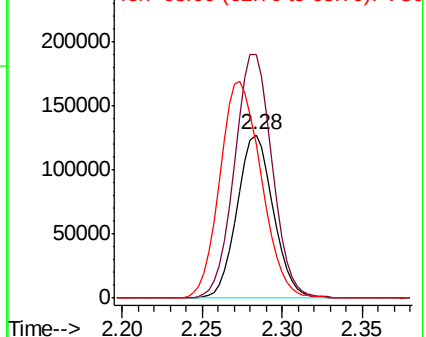
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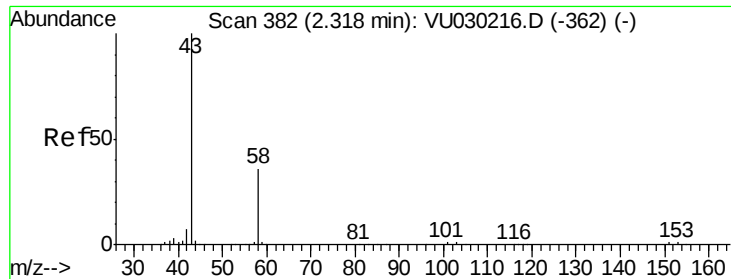


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 92.491 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

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Acq: 20 Mar 2019 15:54

Instrument :

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ClientSampleId :

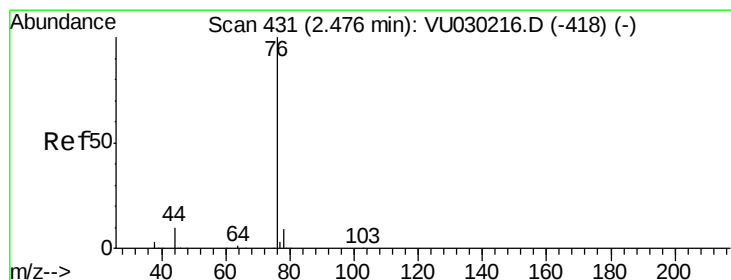
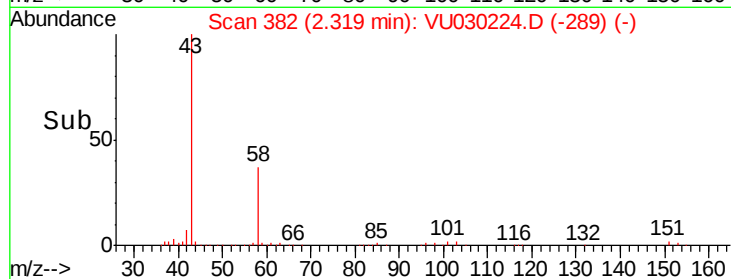
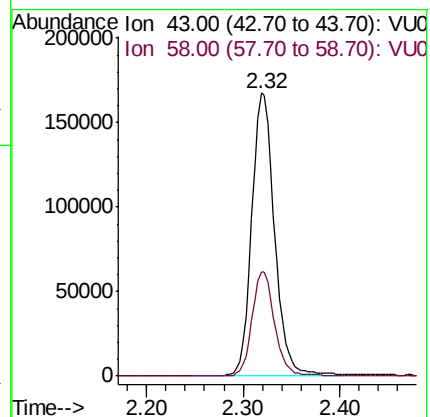
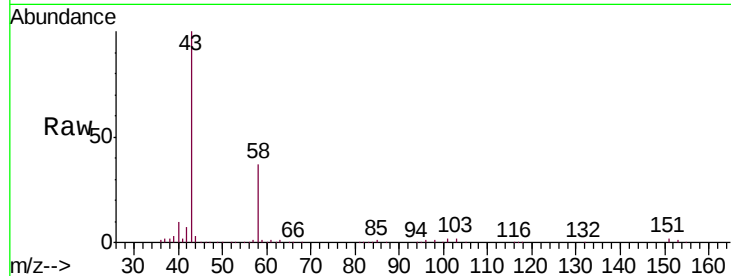
VSTD05048

Tgt Ion: 43 Resp: 275912

Ion Ratio Lower Upper

43 100

58 36.3 0.0 73.4



#14

Carbon disulfide

Concen: 49.769 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU030224.D

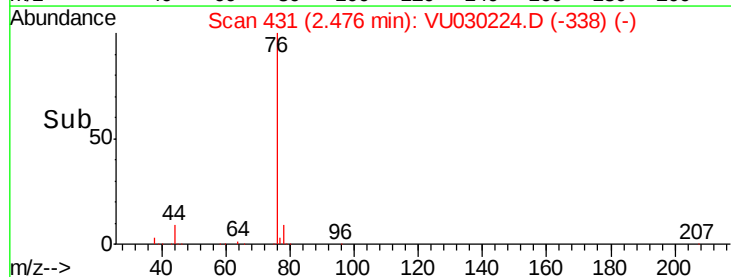
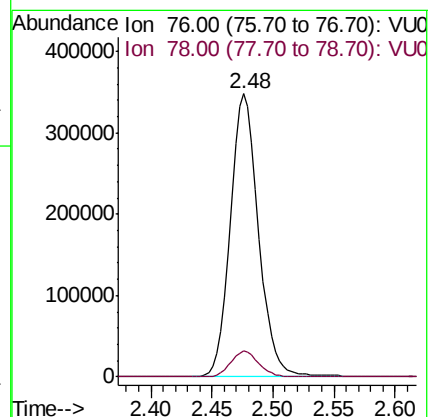
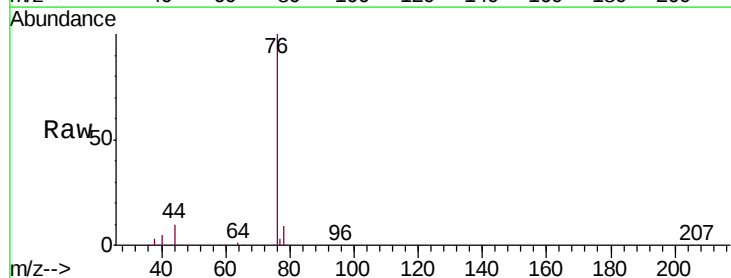
Acq: 20 Mar 2019 15:54

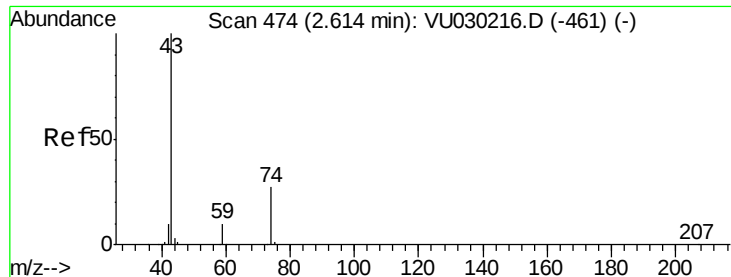
Tgt Ion: 76 Resp: 564392

Ion Ratio Lower Upper

76 100

78 9.1 7.0 10.6





#15

Methyl Acetate

Concen: 51.897 ug/L

RT: 2.61 min Scan# 474

Delta R.T. 0.00 min

Lab File: VU030224.D

Acq: 20 Mar 2019 15:54

Instrument :

MSVOA_U

ClientSampled :

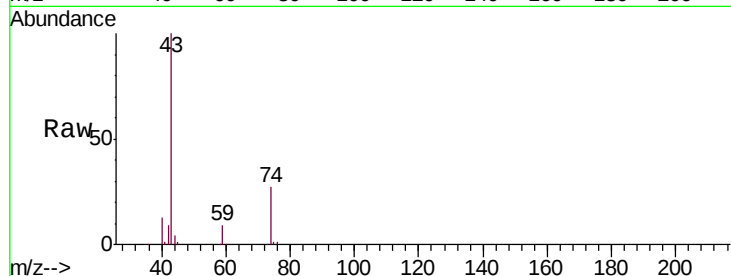
VSTD05048

Tgt Ion: 43 Resp: 225133

Ion Ratio Lower Upper

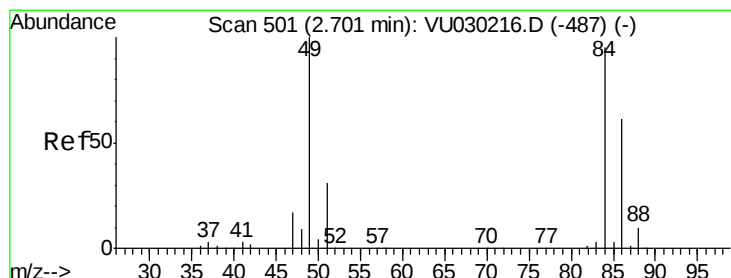
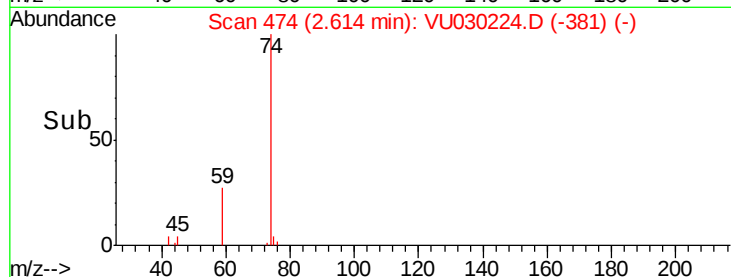
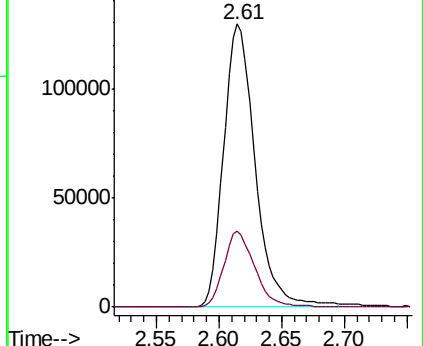
43 100

74 26.6 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VU030224.D (-461) (-)

Ion 74.00 (73.70 to 74.70): VU030224.D (-461) (-)



#16

Methylene chloride

Concen: 51.420 ug/L

RT: 2.70 min Scan# 500

Delta R.T. -0.00 min

Lab File: VU030224.D

Acq: 20 Mar 2019 15:54

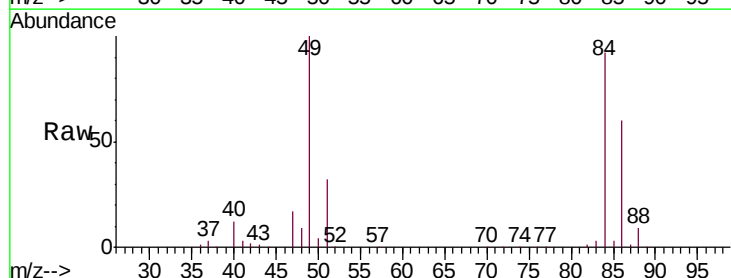
Tgt Ion: 84 Resp: 221422

Ion Ratio Lower Upper

84 100

86 64.8 45.6 84.6

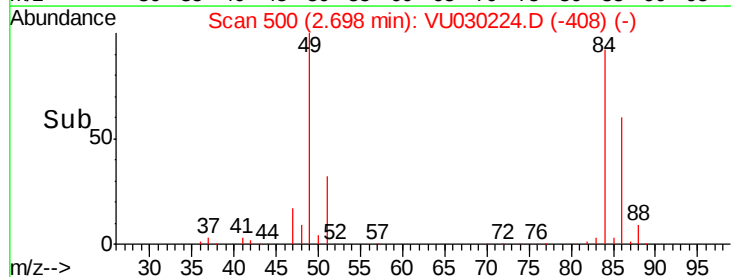
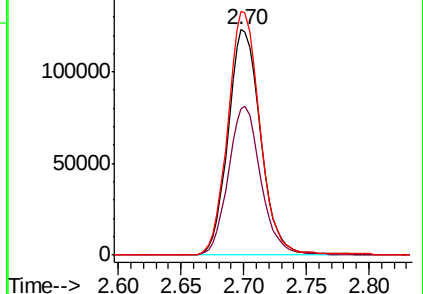
49 108.2 75.2 139.6

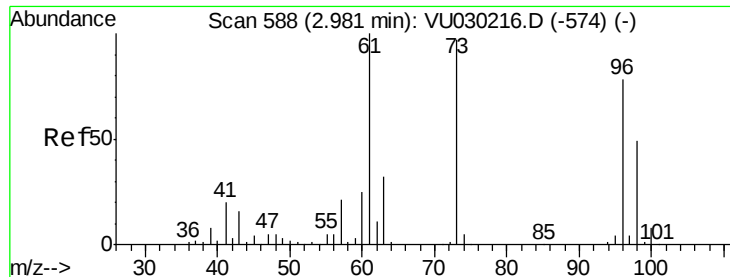


Abundance Ion 84.00 (83.70 to 84.70): VU030224.D (-408) (-)

Ion 86.00 (85.70 to 86.70): VU030224.D (-408) (-)

Ion 49.00 (48.70 to 49.70): VU030224.D (-408) (-)

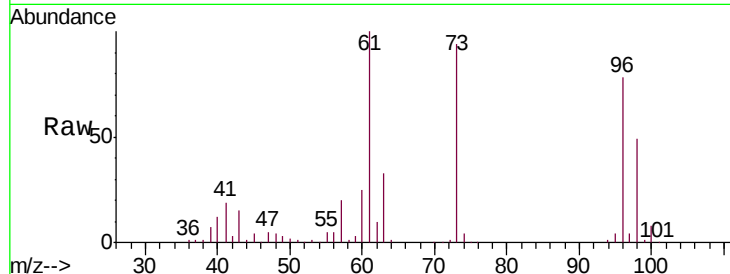




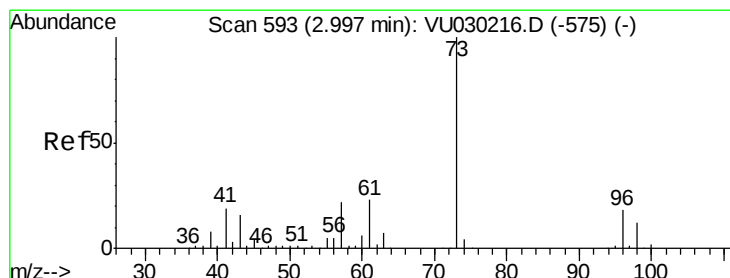
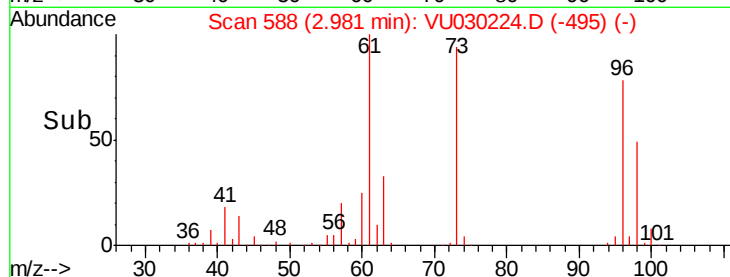
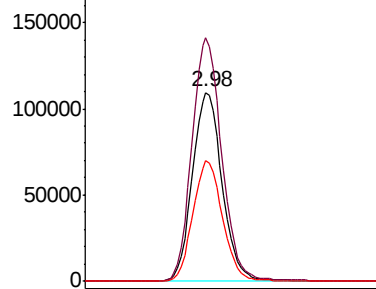
#17
trans-1,2-Dichloroethene
Concen: 51.181 ug/L
RT: 2.98 min Scan# 588
Delta R.T. 0.00 min
Lab File: VU030224.D
Acq: 20 Mar 2019 15:54

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Tgt Ion: 96 Resp: 204788
Ion Ratio Lower Upper
96 100
61 128.9 90.9 168.9
98 63.7 45.6 84.6

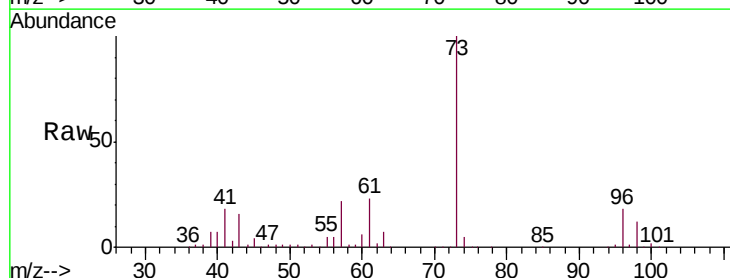


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

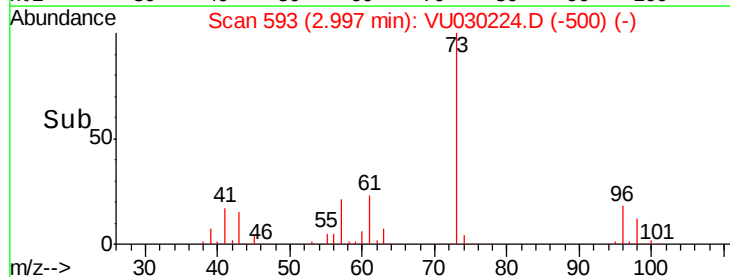
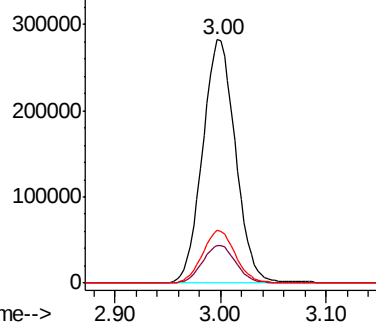


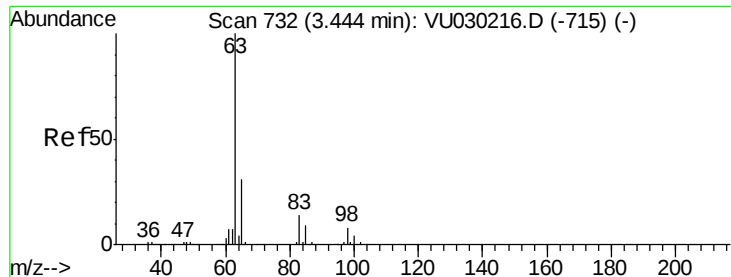
#18
Methyl tert-butyl Ether
Concen: 53.260 ug/L
RT: 3.00 min Scan# 593
Delta R.T. 0.00 min
Lab File: VU030224.D
Acq: 20 Mar 2019 15:54

Tgt Ion: 73 Resp: 613017
Ion Ratio Lower Upper
73 100
43 15.8 13.1 19.7
57 21.7 17.1 25.7



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

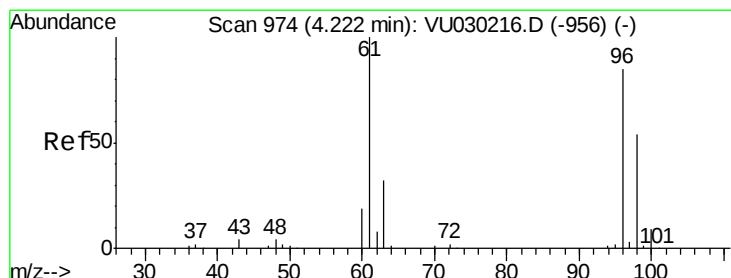
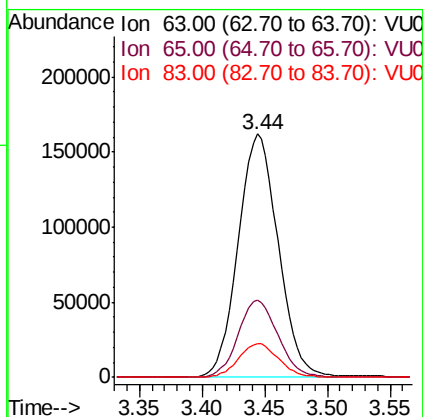
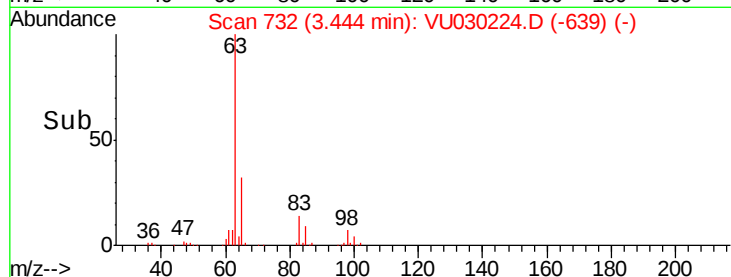
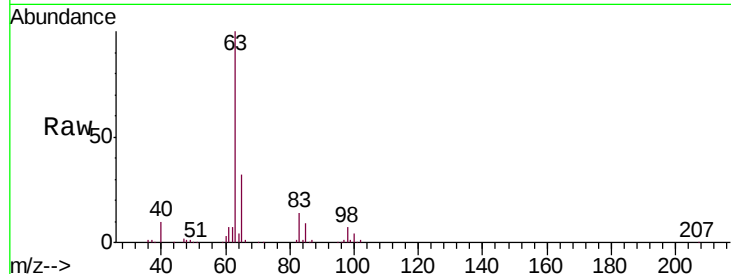




#19
 1,1-Dichloroethane
 Concen: 52.221 ug/L
 RT: 3.44 min Scan# 732
 Delta R.T. 0.00 min
 Lab File: VU030224.D
 Acq: 20 Mar 2019 15:54

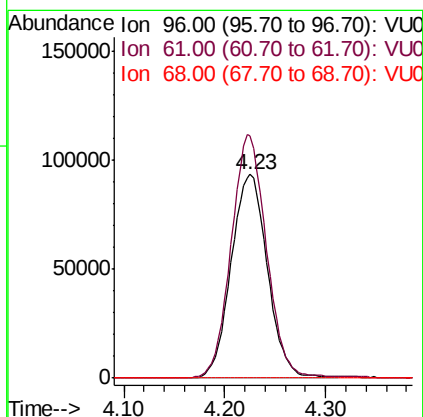
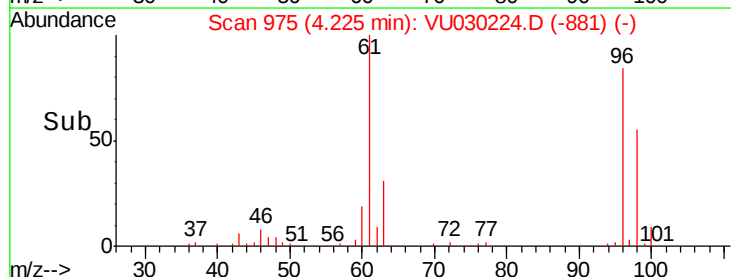
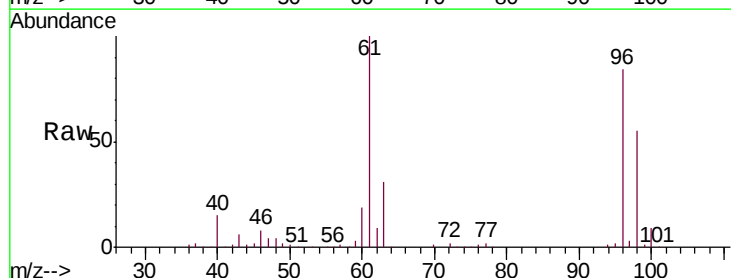
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

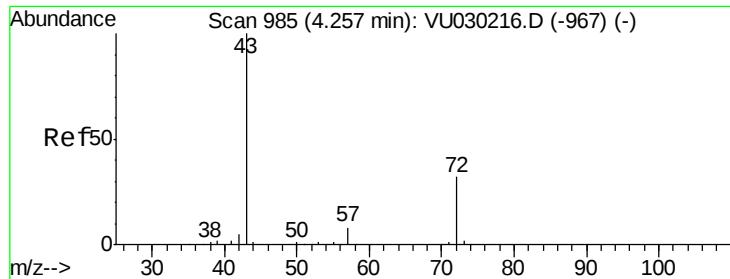
Tgt Ion: 63 Resp: 359395
 Ion Ratio Lower Upper
 63 100
 65 31.8 21.8 40.4
 83 13.9 9.9 18.3



#20
 cis-1,2-Dichloroethene
 Concen: 53.330 ug/L
 RT: 4.23 min Scan# 975
 Delta R.T. 0.00 min
 Lab File: VU030224.D
 Acq: 20 Mar 2019 15:54

Tgt Ion: 96 Resp: 233795
 Ion Ratio Lower Upper
 96 100
 61 118.7 81.5 151.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 102.215 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU030224.D

Acq: 20 Mar 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

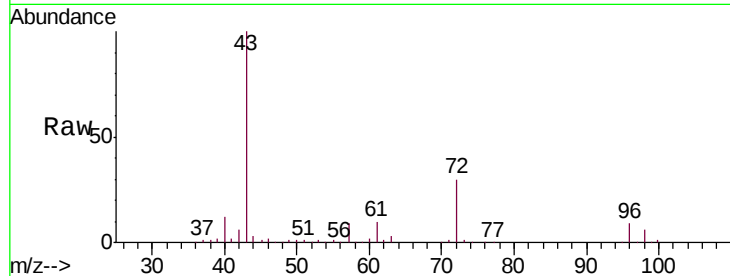
VSTD05048

Tgt Ion: 43 Resp: 358370

Ion Ratio Lower Upper

43 100

72 29.9 15.7 47.1



Abundance Ion 43.00 (42.70 to 43.70): VU030216.D (-967) (-)

Ion 72.00 (71.70 to 72.70): VU030216.D (-967) (-)

4.26

150000

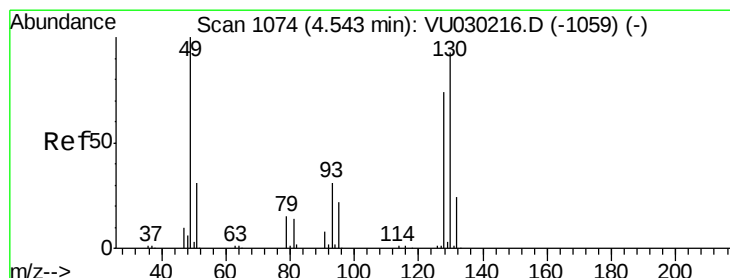
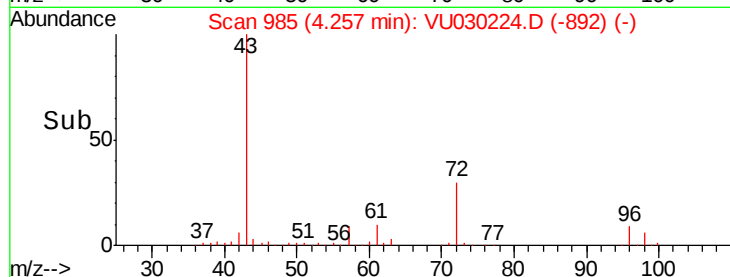
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 52.193 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU030224.D

Acq: 20 Mar 2019 15:54

Tgt Ion: 128 Resp: 122461

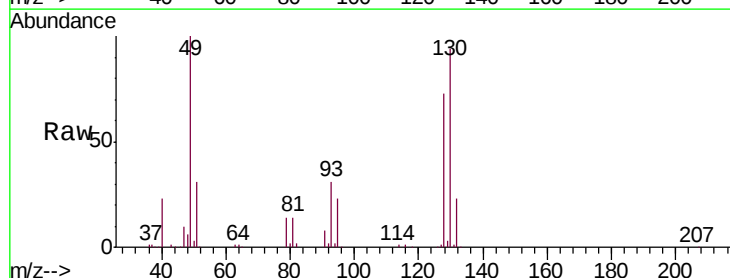
Ion Ratio Lower Upper

128 100

49 137.3 92.5 171.9

130 128.8 90.1 167.3

51 43.2 33.8 50.8



Abundance Ion 128.00 (127.70 to 128.70): VU030216.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU030216.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU030216.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU030216.D (-1059) (-)

100000

80000

60000

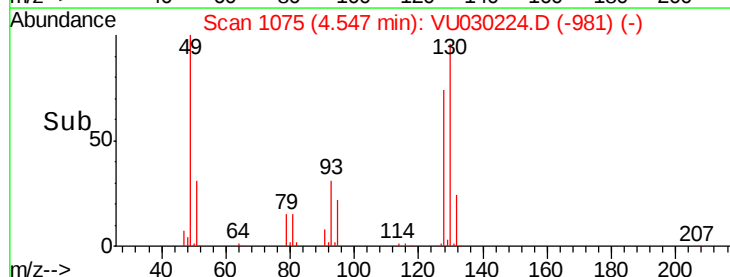
40000

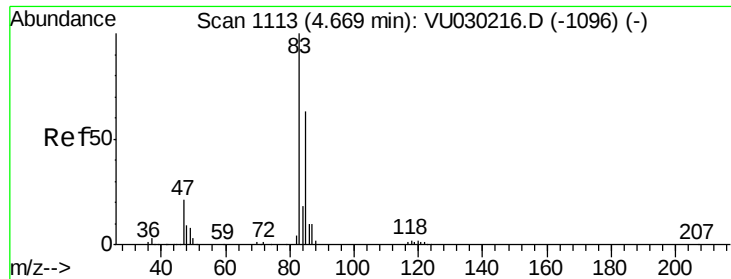
20000

0

4.50 4.60 4.70

Time-->





#25

Chloroform

Concen: 51.749 ug/L

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VU030224.D

Acq: 20 Mar 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

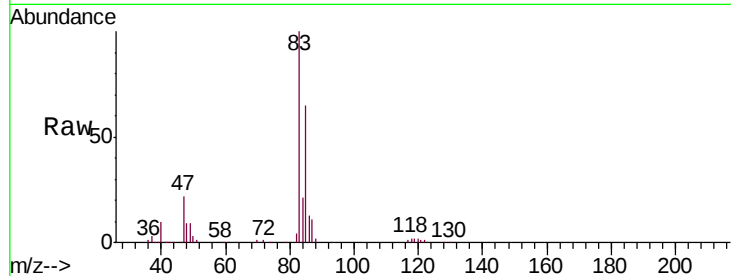
VSTD05048

Tgt Ion: 83 Resp: 371042

Ion Ratio Lower Upper

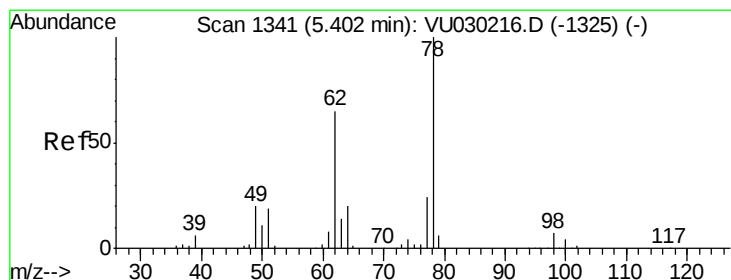
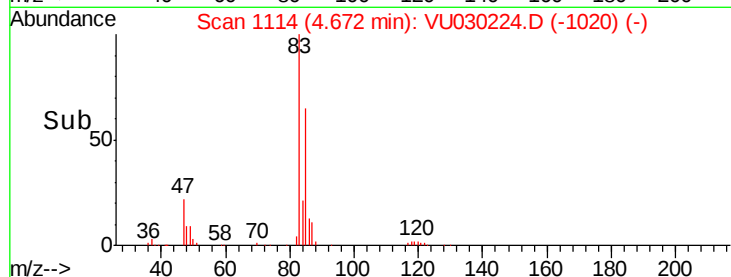
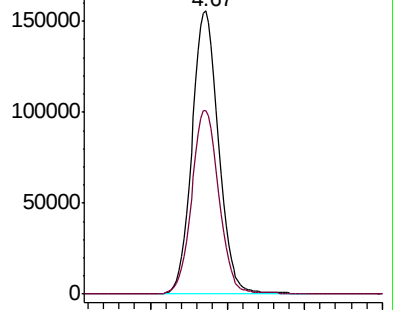
83 100

85 64.9 45.8 85.2



Abundance Ion 83.00 (82.70 to 83.70): VU030216.D (-1096) (-)

Ion 85.00 (84.70 to 85.70): VU030216.D (-1096) (-)



#27

1,2-Dichloroethane

Concen: 51.545 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VU030224.D

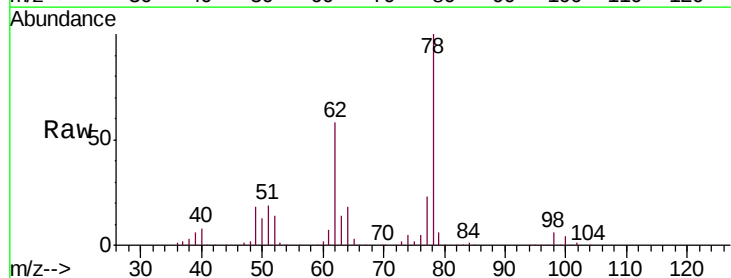
Acq: 20 Mar 2019 15:54

Tgt Ion: 62 Resp: 261952

Ion Ratio Lower Upper

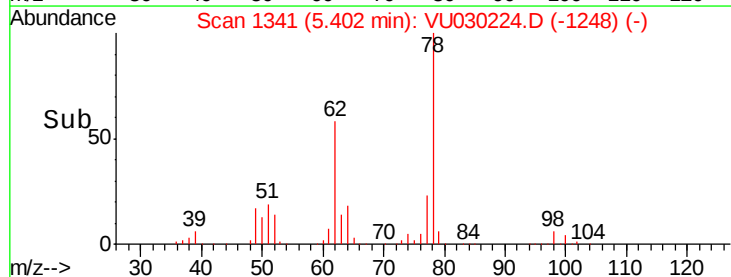
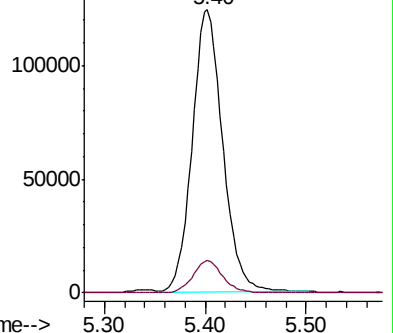
62 100

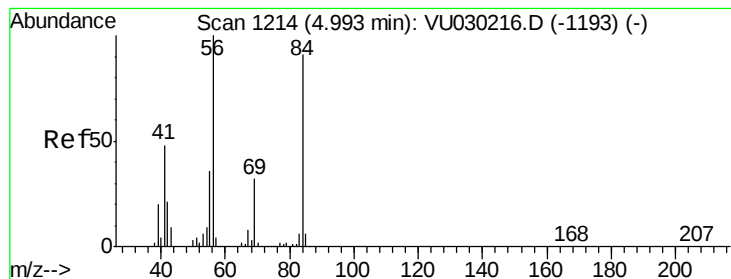
98 11.3 8.6 12.8



Abundance Ion 62.00 (61.70 to 62.70): VU030216.D (-1325) (-)

Ion 98.00 (97.70 to 98.70): VU030216.D (-1325) (-)





#29

Cyclohexane

Concen: 53.622 ug/L

RT: 4.99 min Scan# 1214

Delta R.T. 0.00 min

Lab File: VU030224.D

Acq: 20 Mar 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

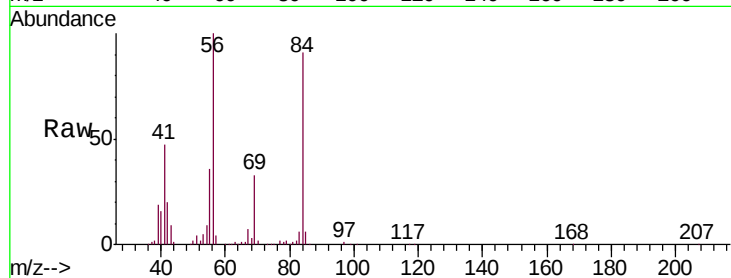
Tgt Ion: 56 Resp: 324008

Ion Ratio Lower Upper

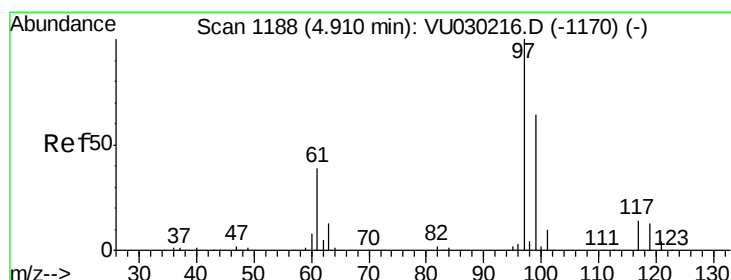
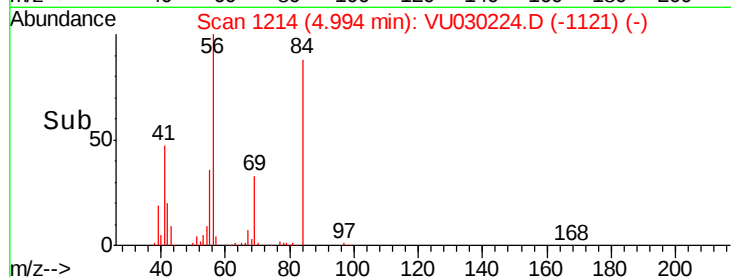
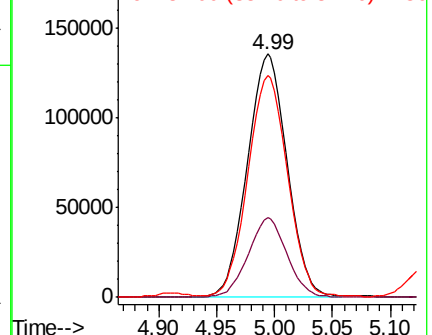
56 100

69 31.9 25.4 38.2

84 91.7 71.5 107.3



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: 52.511 ug/L

RT: 4.91 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VU030224.D

Acq: 20 Mar 2019 15:54

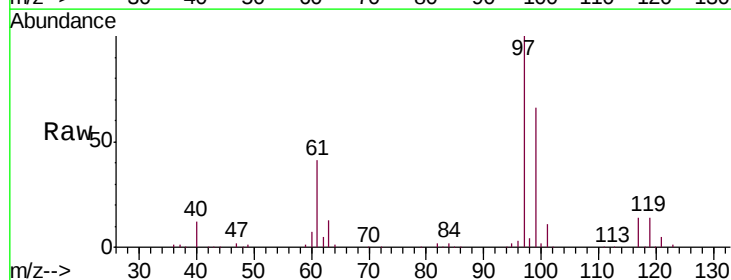
Tgt Ion: 97 Resp: 314717

Ion Ratio Lower Upper

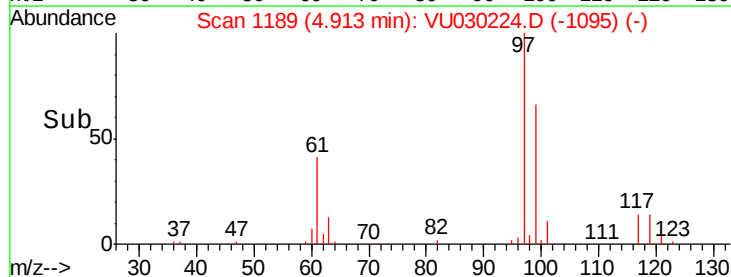
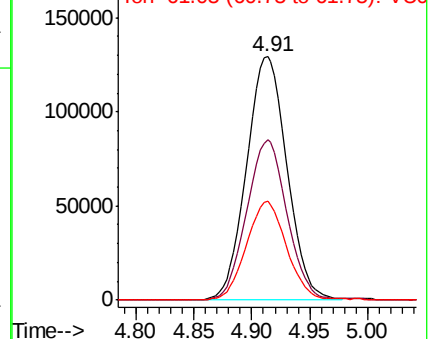
97 100

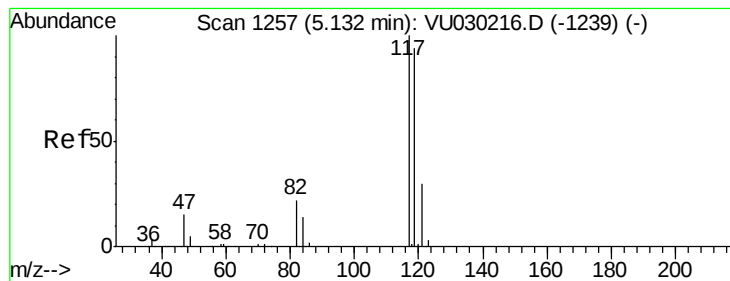
99 66.1 51.8 77.6

61 40.2 32.7 49.1



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: 53.487 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU030224.D

Acq: 20 Mar 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

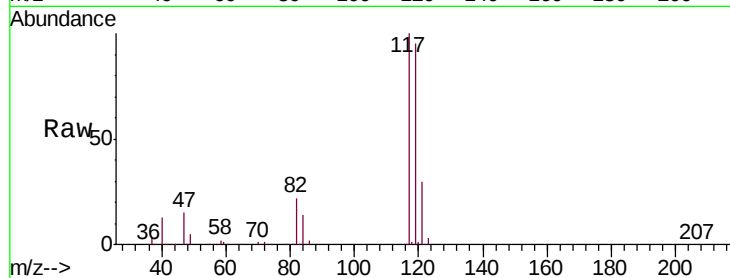
VSTD05048

Tgt Ion:117 Resp: 283795

Ion Ratio Lower Upper

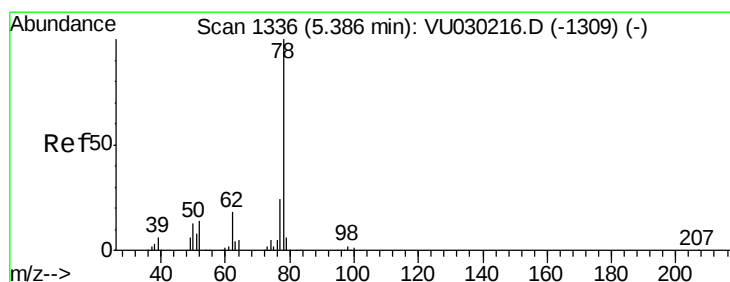
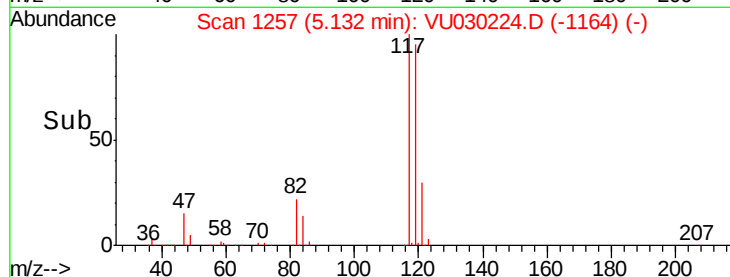
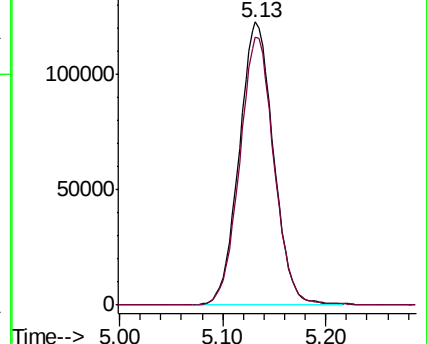
117 100

119 93.9 77.1 115.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 53.311 ug/L

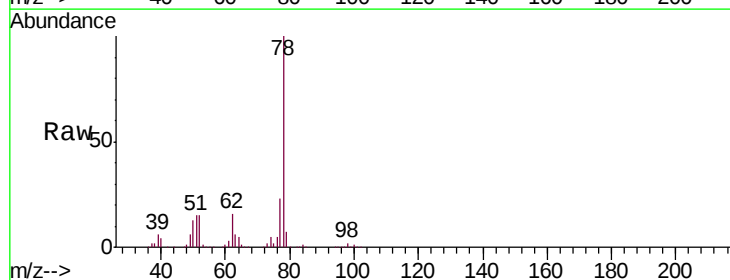
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

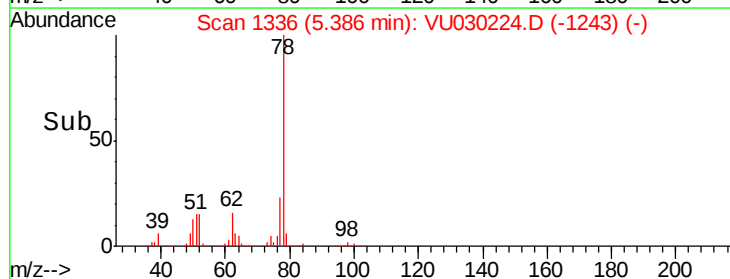
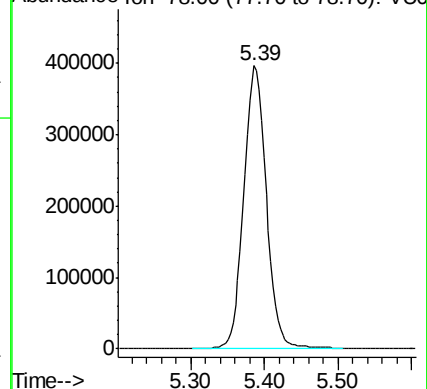
Lab File: VU030224.D

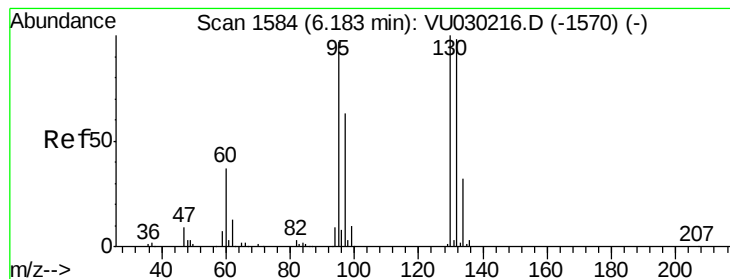
Acq: 20 Mar 2019 15:54

Tgt Ion: 78 Resp: 855372



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 51.738 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU030224.D

Acq: 20 Mar 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

Tgt Ion: 95 Resp: 218800

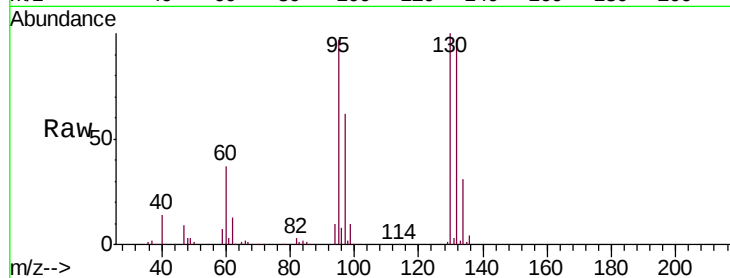
Ion Ratio Lower Upper

95 100

97 63.7 46.2 85.8

132 99.9 69.3 128.7

130 103.4 73.6 136.6

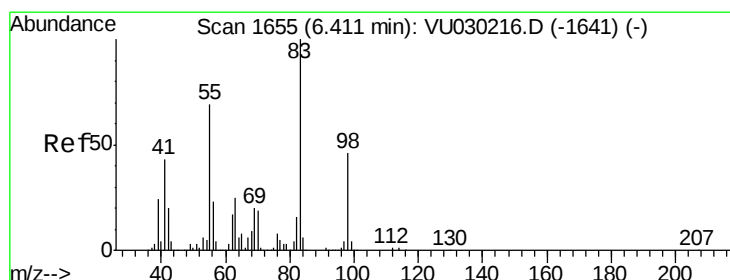
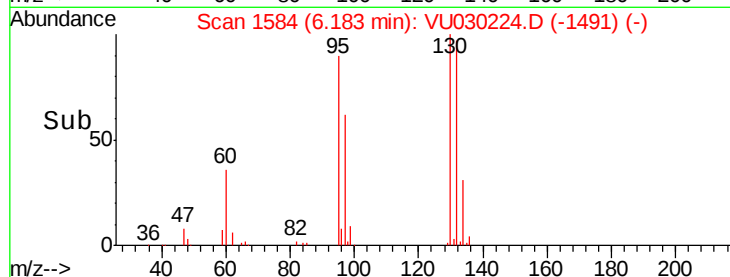
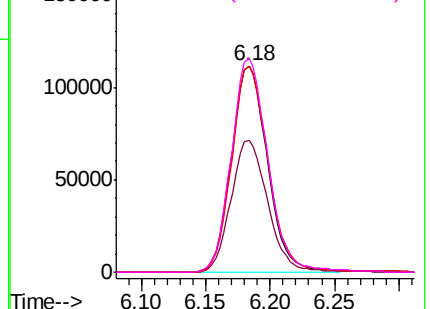


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 53.214 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU030224.D

Acq: 20 Mar 2019 15:54

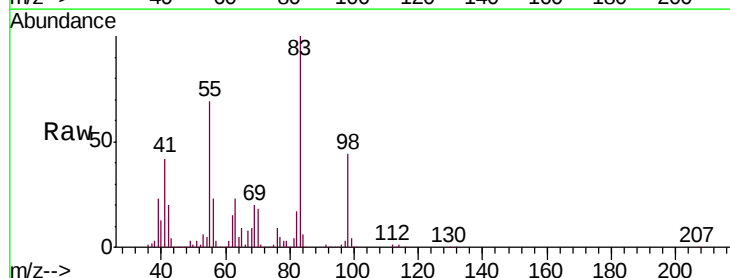
Tgt Ion: 83 Resp: 352885

Ion Ratio Lower Upper

83 100

55 71.2 56.6 85.0

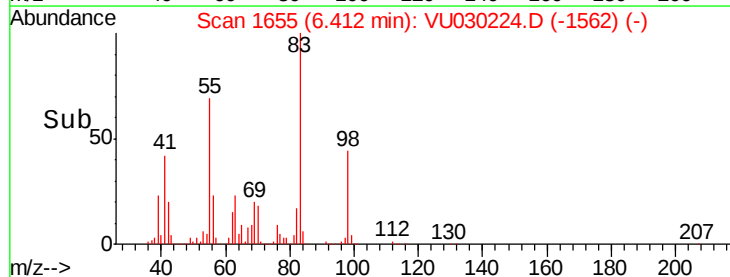
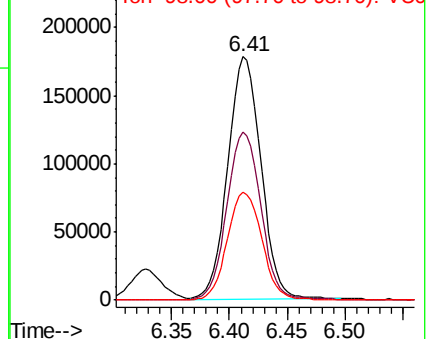
98 46.6 37.0 55.4

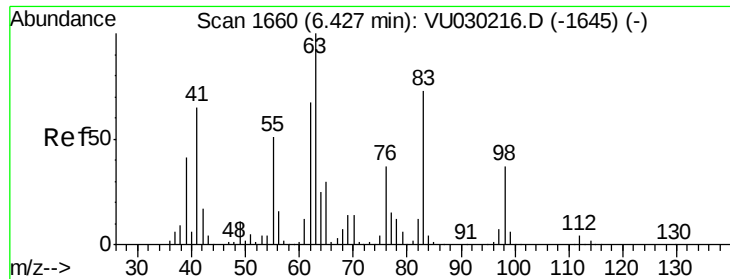


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

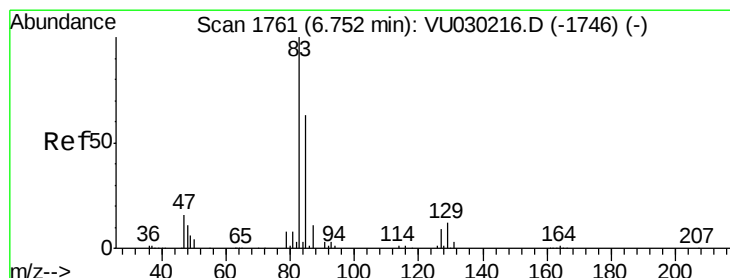
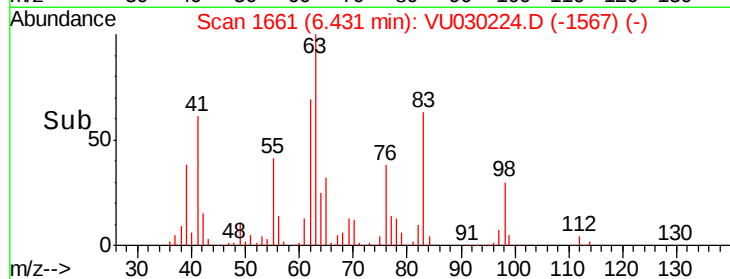
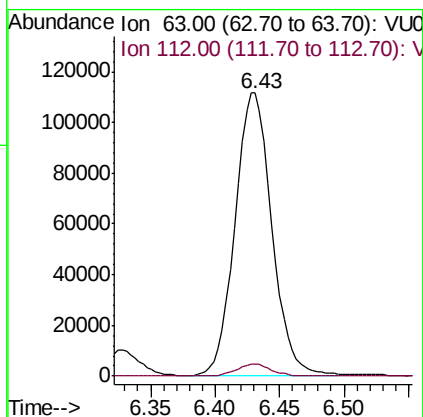
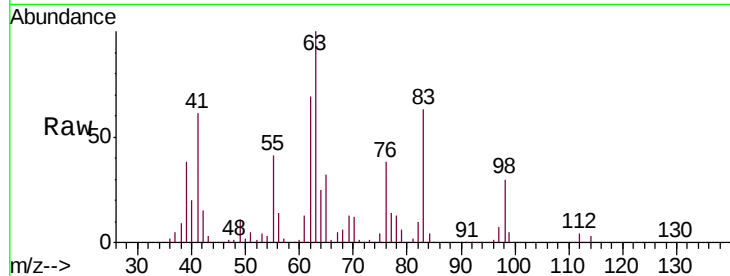




#37
 1,2-Dichloropropane
 Concen: 53.360 ug/L
 RT: 6.43 min Scan# 1661
 Delta R.T. 0.00 min
 Lab File: VU030224.D
 Acq: 20 Mar 2019 15:54

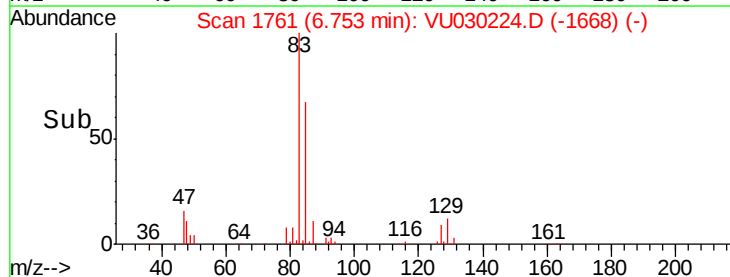
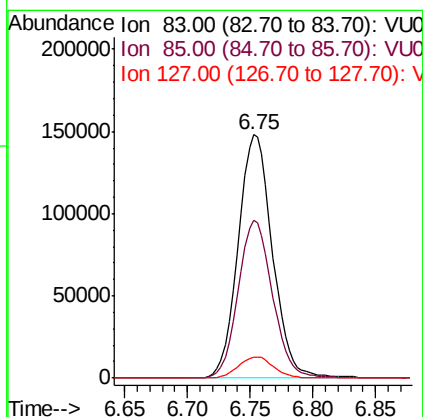
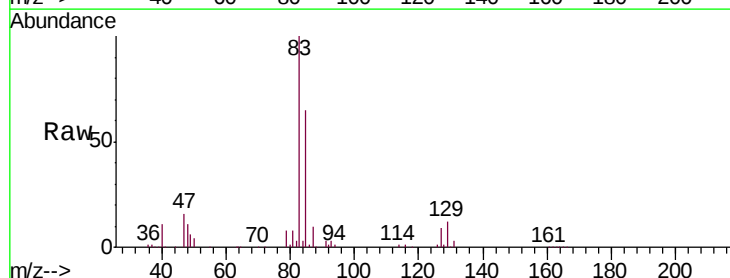
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

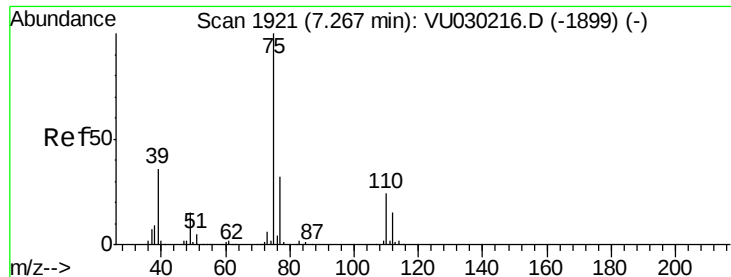
Tgt Ion: 63 Resp: 219267
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.3 4.9



#38
 Bromodichloromethane
 Concen: 53.010 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU030224.D
 Acq: 20 Mar 2019 15:54

Tgt Ion: 83 Resp: 280068
 Ion Ratio Lower Upper
 83 100
 85 65.0 45.8 85.2
 127 8.8 7.4 11.0



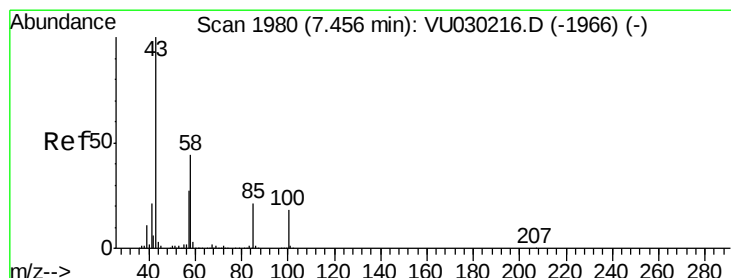
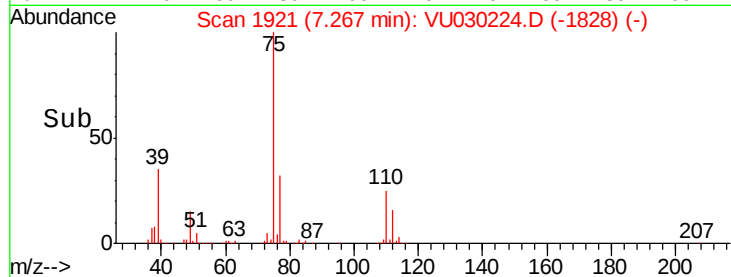
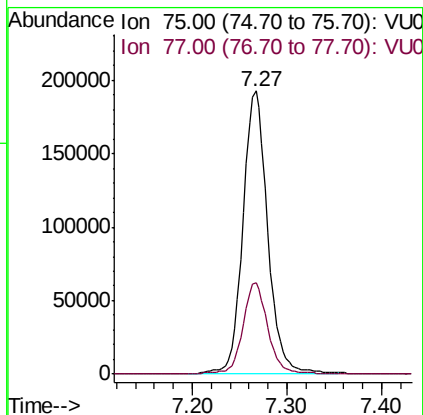
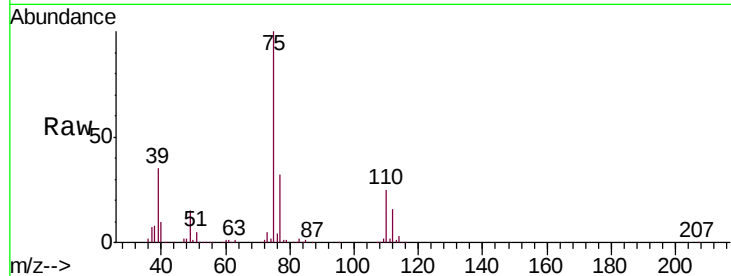


#39

cis-1,3-Dichloropropene
 Concen: 53.359 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU030224.D
 Acq: 20 Mar 2019 15:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

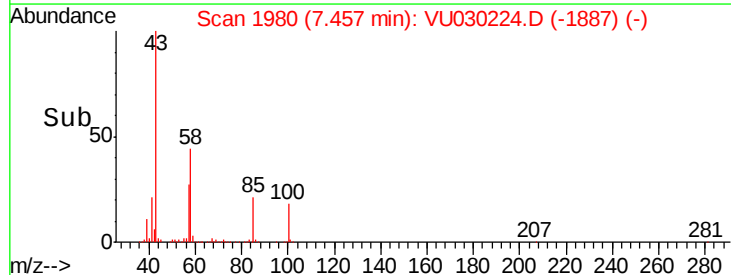
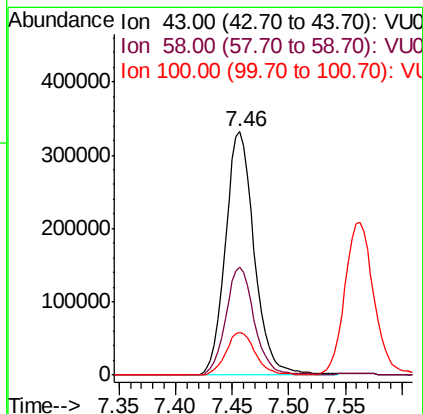
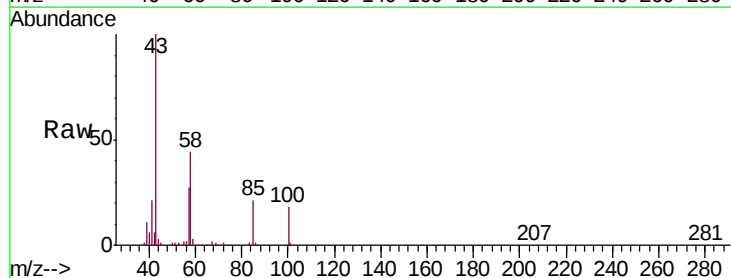
Tgt Ion: 75 Resp: 351788
 Ion Ratio Lower Upper
 75 100
 77 32.3 22.1 41.1

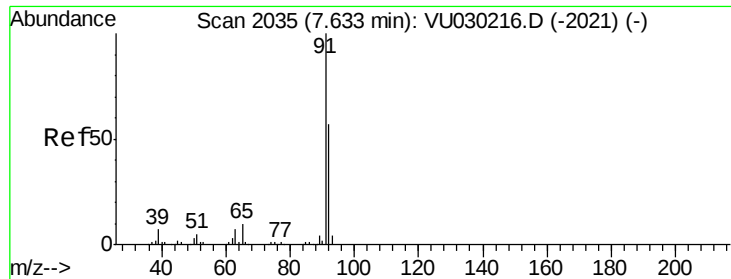


#40

4-Methyl-2-pentanone
 Concen: 104.638 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU030224.D
 Acq: 20 Mar 2019 15:54

Tgt Ion: 43 Resp: 590941
 Ion Ratio Lower Upper
 43 100
 58 43.8 34.4 51.6
 100 17.9 13.9 20.9





#42

Toluene

Concen: 53.887 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU030224.D

Acq: 20 Mar 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

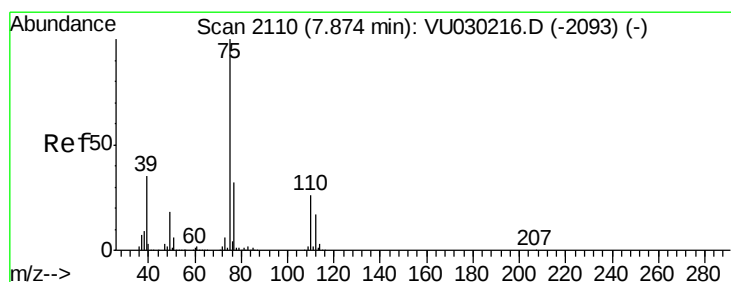
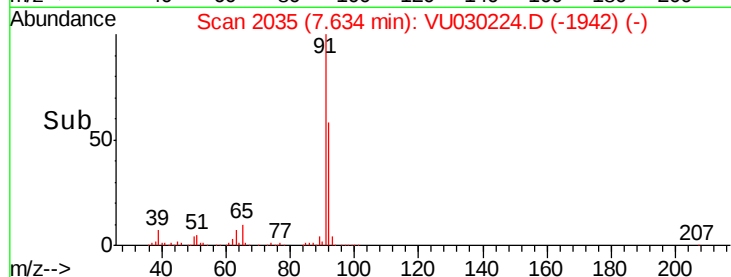
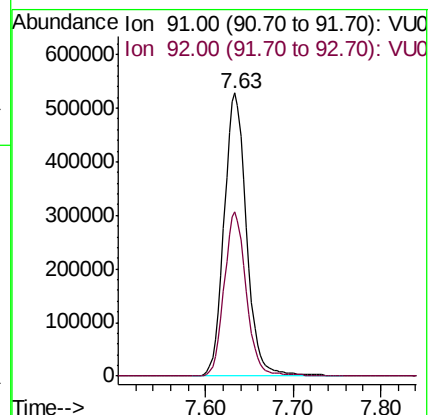
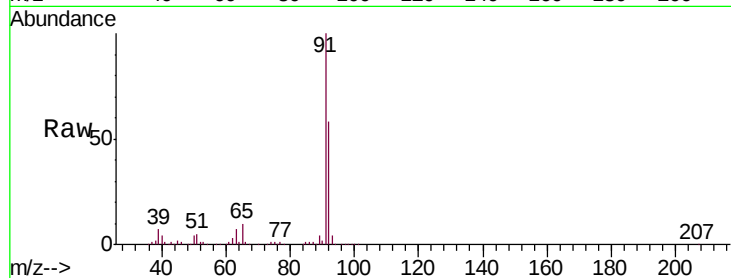
VSTD05048

Tgt Ion: 91 Resp: 941064

Ion Ratio Lower Upper

91 100

92 58.1 40.7 75.7



#44

trans-1,3-Dichloropropene

Concen: 54.081 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU030224.D

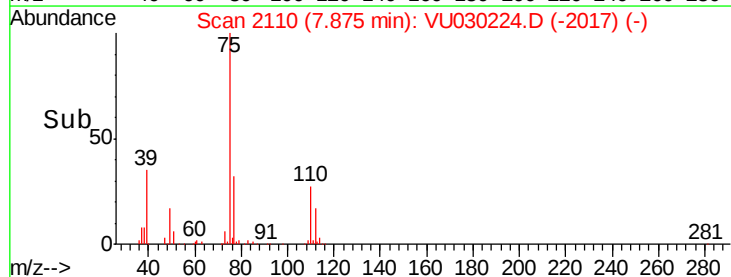
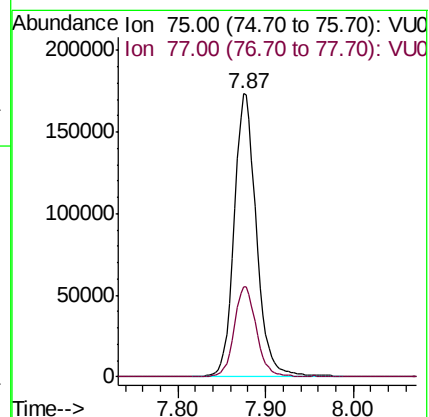
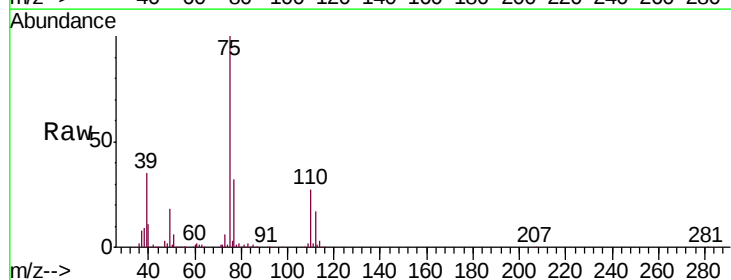
Acq: 20 Mar 2019 15:54

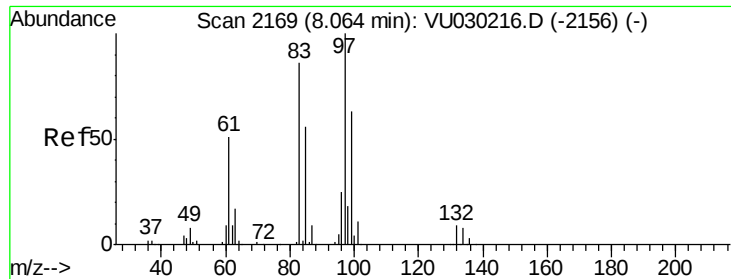
Tgt Ion: 75 Resp: 308525

Ion Ratio Lower Upper

75 100

77 32.0 22.7 42.1

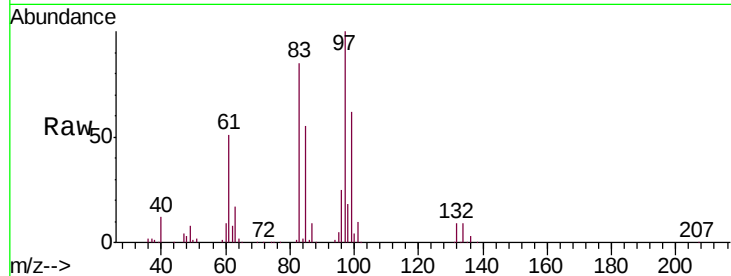




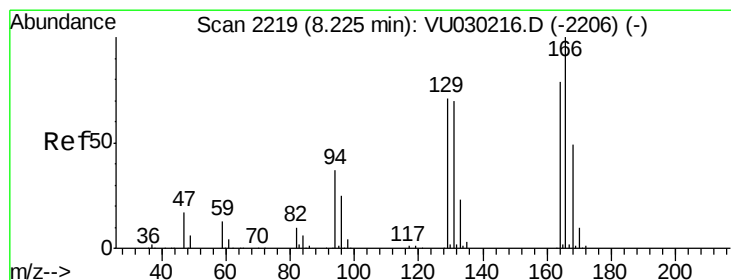
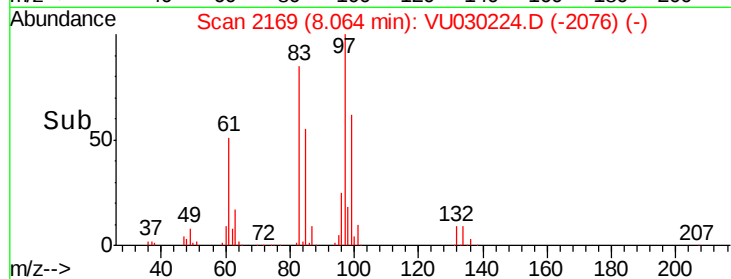
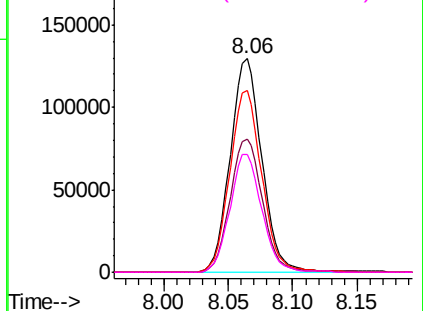
#45
 1,1,2-Trichloroethane
 Concen: 52.442 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU030224.D
 Acq: 20 Mar 2019 15:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Tgt Ion:	97	Resp:	221206
Ion	Ratio	Lower	Upper
97	100		
99	62.2	43.3	80.5
83	84.9	59.3	110.1
85	55.3	39.0	72.4

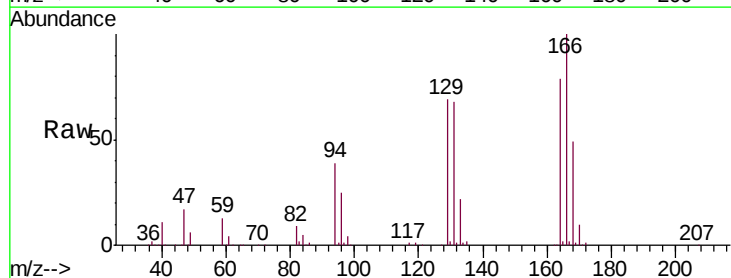


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

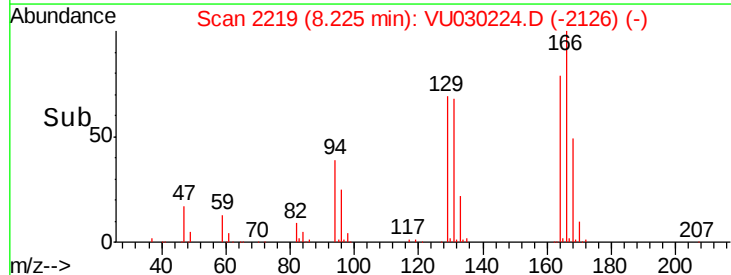
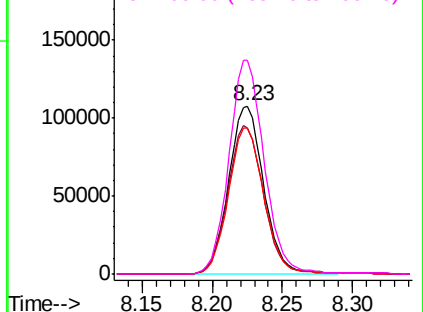


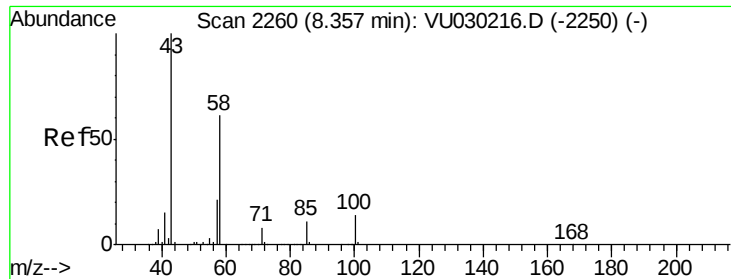
#46
 Tetrachloroethene
 Concen: 52.624 ug/L
 RT: 8.23 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU030224.D
 Acq: 20 Mar 2019 15:54

Tgt Ion:	164	Resp:	188028
Ion	Ratio	Lower	Upper
164	100		
129	87.2	64.4	119.6
131	86.8	63.2	117.4
166	127.1	89.5	166.1



Abundance Ion 164.00 (163.70 to 164.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V
 Ion 166.00 (165.70 to 166.70): V

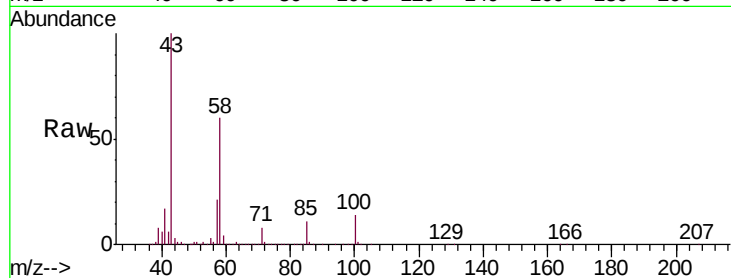




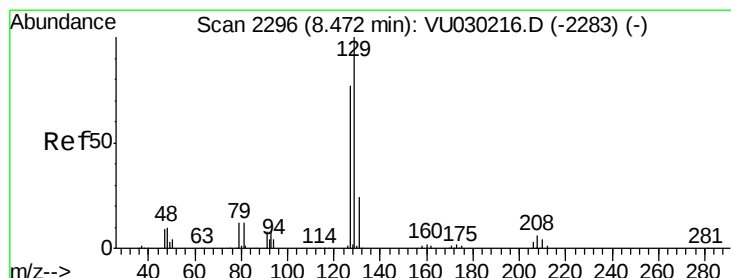
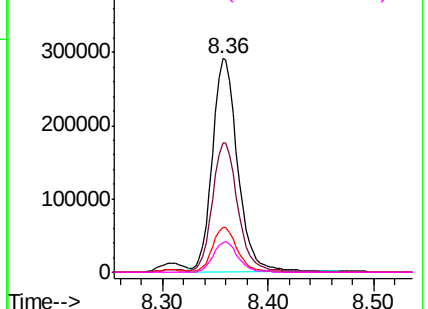
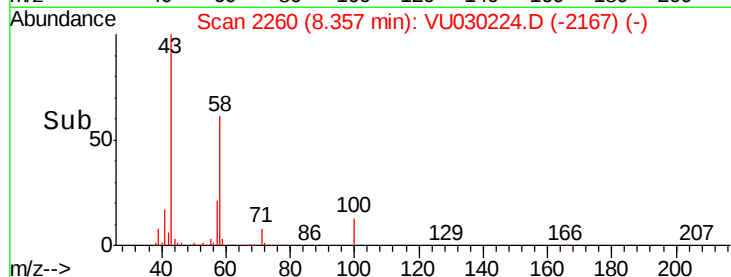
#48
2-Hexanone
Concen: 103.507 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU030224.D
Acq: 20 Mar 2019 15:54

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Tgt Ion: 43 Resp: 485172
Ion Ratio Lower Upper
43 100
58 61.6 49.3 73.9
57 20.7 17.0 25.4
100 13.9 11.0 16.4

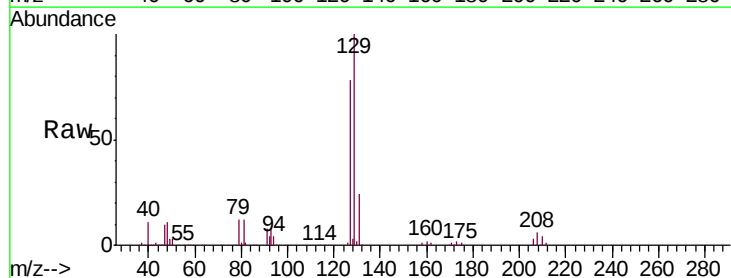


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

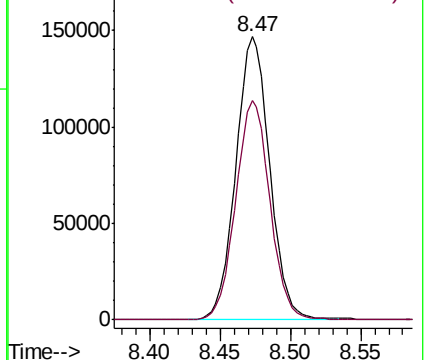
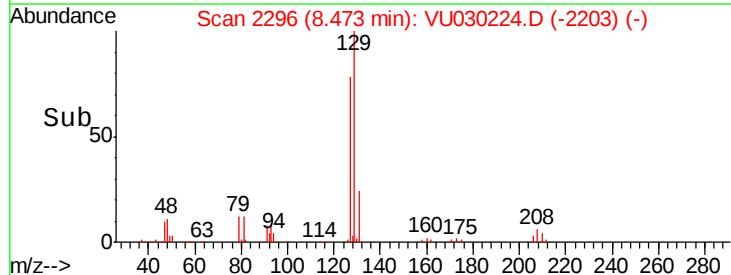


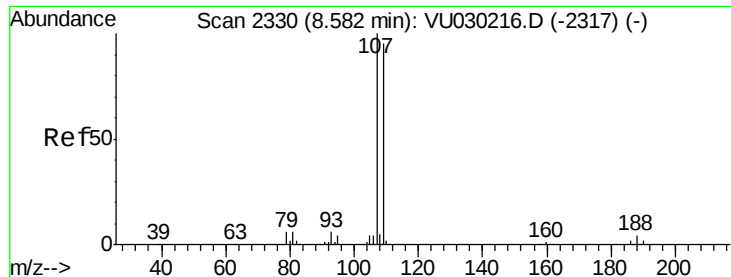
#49
Dibromochloromethane
Concen: 52.304 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU030224.D
Acq: 20 Mar 2019 15:54

Tgt Ion: 129 Resp: 247401
Ion Ratio Lower Upper
129 100
127 77.6 53.4 99.2



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

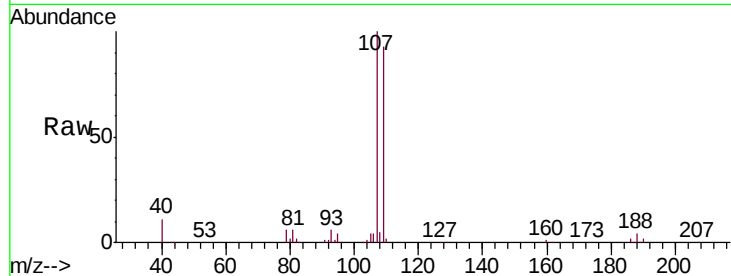




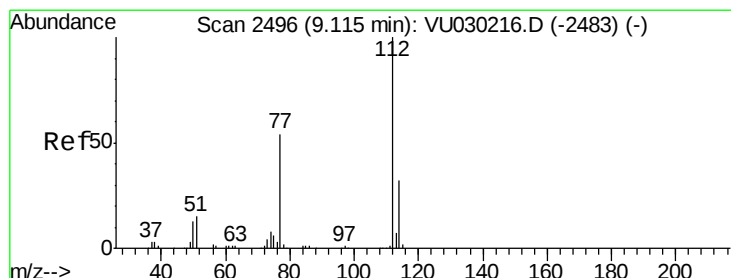
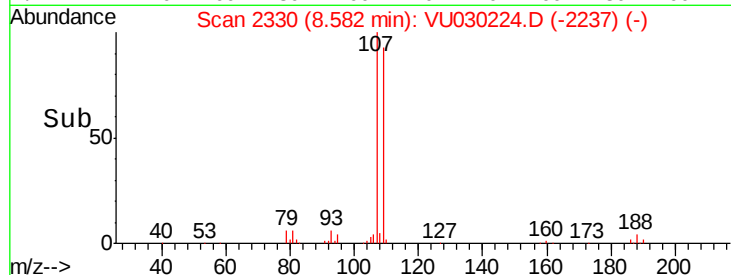
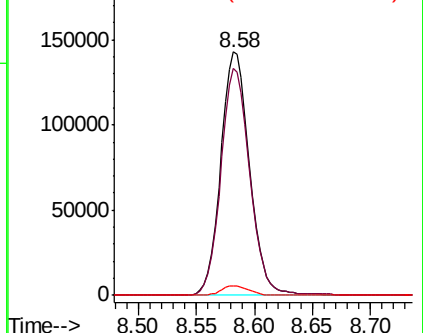
#50
1,2-Dibromoethane
Concen: 52.451 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU030224.D
Acq: 20 Mar 2019 15:54

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Tgt Ion:107 Resp: 245286
Ion Ratio Lower Upper
107 100
109 93.2 65.4 121.4
188 3.9 2.7 4.1

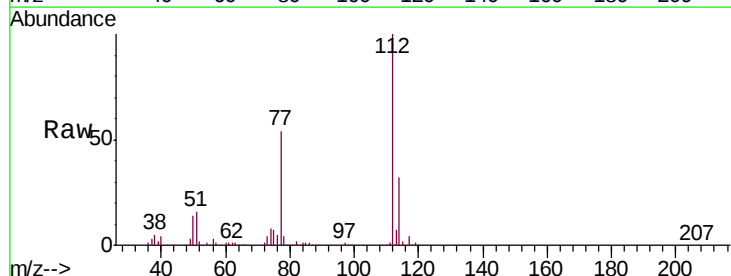


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

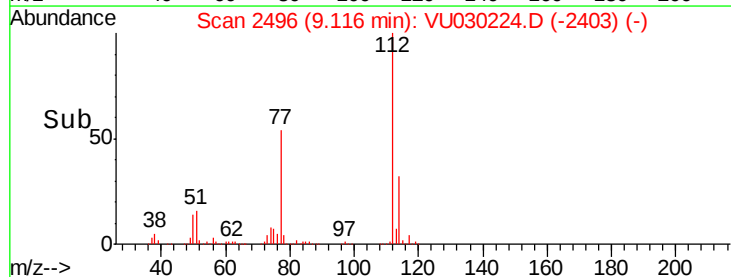
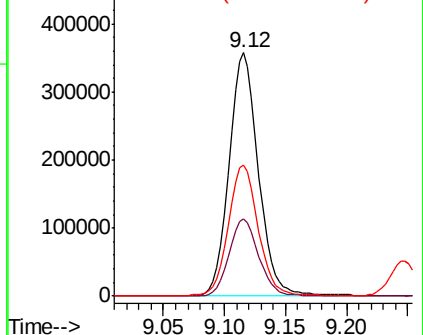


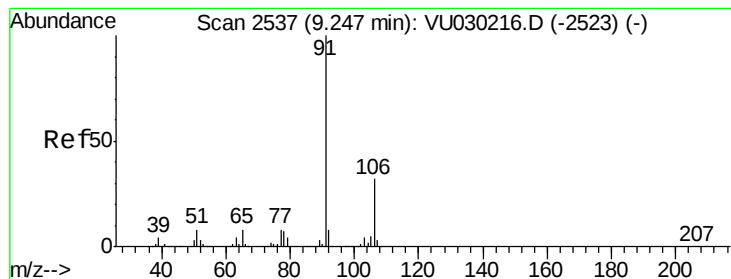
#51
Chlorobenzene
Concen: 51.921 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU030224.D
Acq: 20 Mar 2019 15:54

Tgt Ion:112 Resp: 599897
Ion Ratio Lower Upper
112 100
114 31.8 22.5 41.7
77 54.0 43.4 65.0



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: 53.331 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU030224.D

Acq: 20 Mar 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

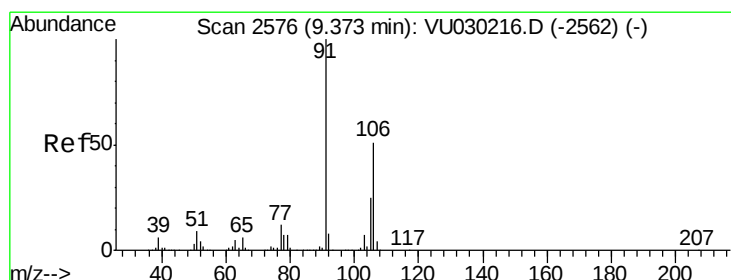
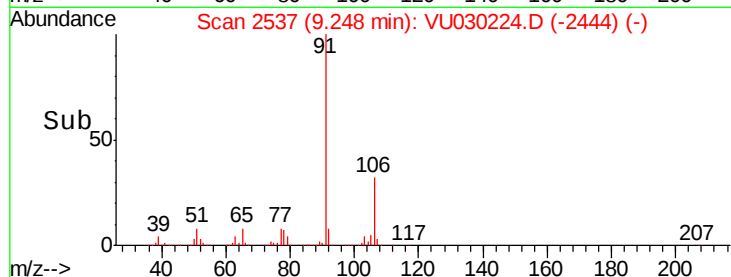
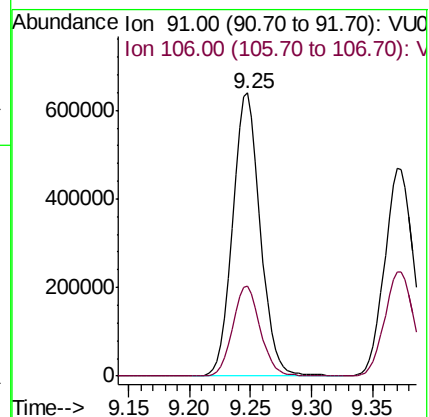
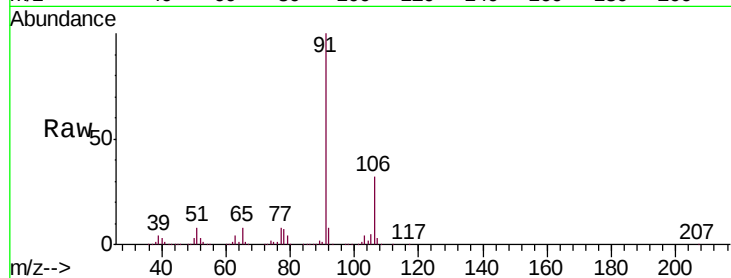
VSTD05048

Tgt Ion: 91 Resp: 1011442

Ion Ratio Lower Upper

91 100

106 31.8 22.5 41.7



#53

m,p-Xylene

Concen: 54.292 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU030224.D

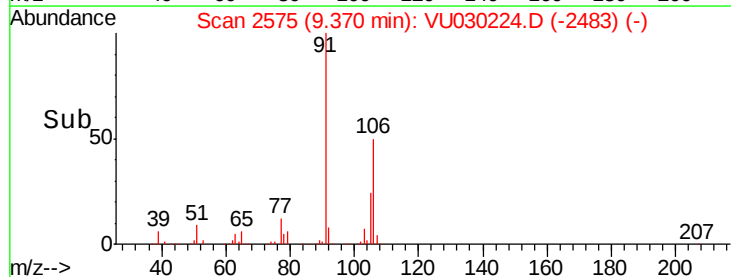
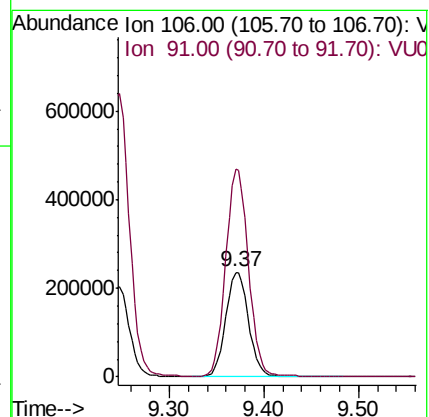
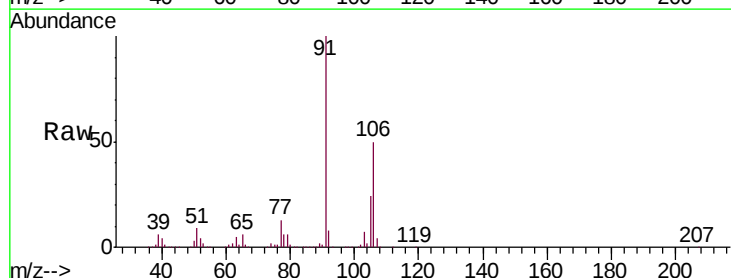
Acq: 20 Mar 2019 15:54

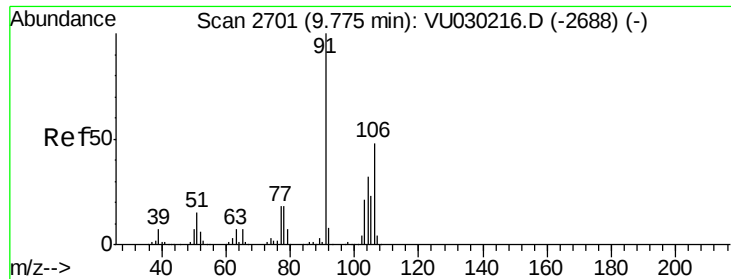
Tgt Ion: 106 Resp: 396708

Ion Ratio Lower Upper

106 100

91 198.7 138.2 256.6





#54

o-xylene

Concen: 54.412 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU030224.D

Acq: 20 Mar 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

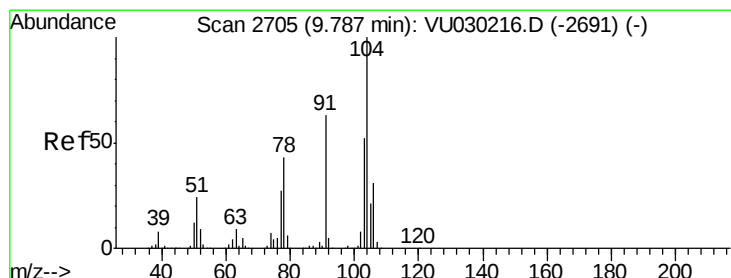
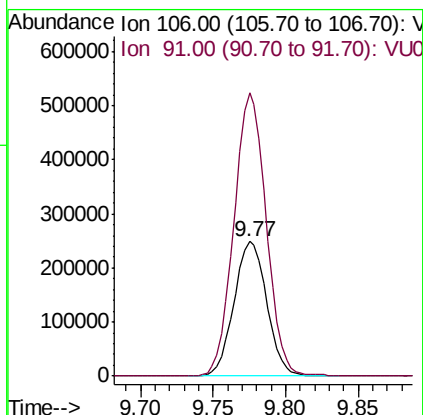
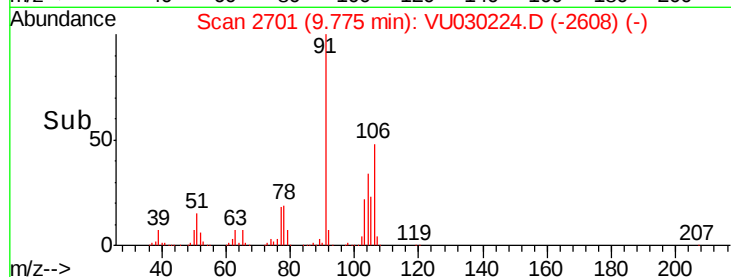
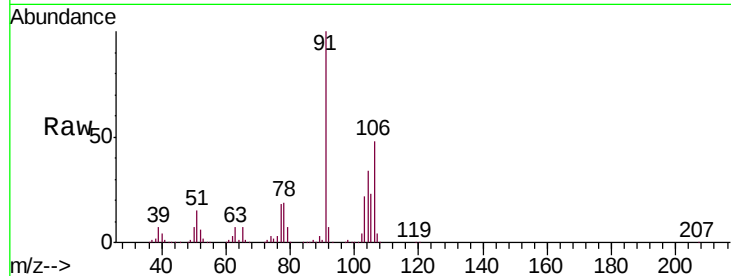
VSTD05048

Tgt Ion:106 Resp: 390830

Ion Ratio Lower Upper

106 100

91 210.2 145.5 270.3



#55

Styrene

Concen: 54.714 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU030224.D

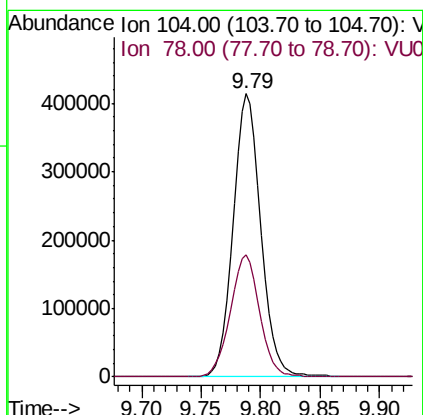
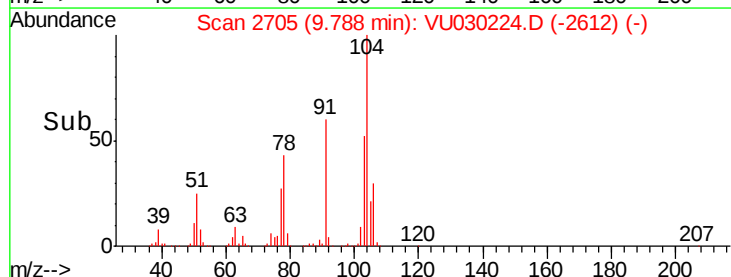
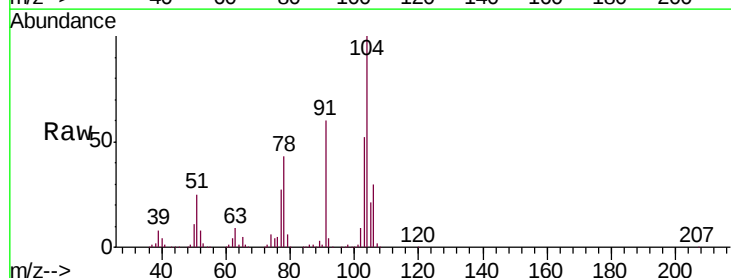
Acq: 20 Mar 2019 15:54

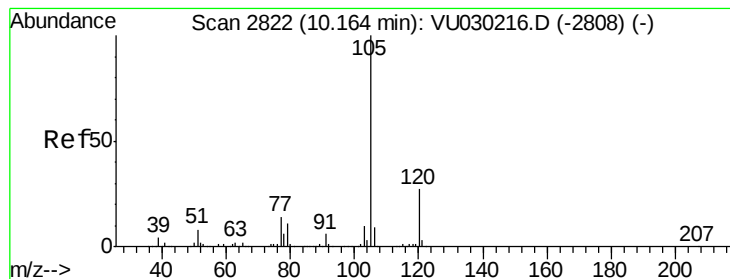
Tgt Ion:104 Resp: 665868

Ion Ratio Lower Upper

104 100

78 43.0 29.8 55.4





#56

Isopropylbenzene

Concen: 54.068 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU030224.D

Acq: 20 Mar 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

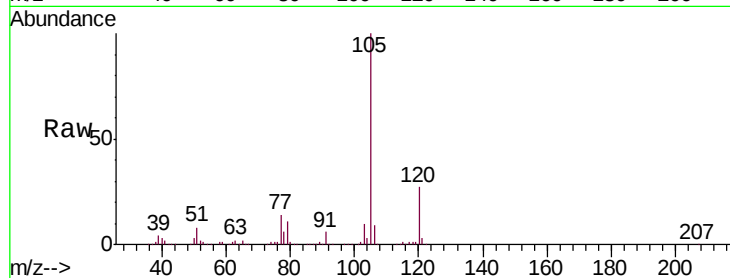
Tgt Ion: 105 Resp: 1004065

Ion Ratio Lower Upper

105 100

120 27.2 21.8 32.8

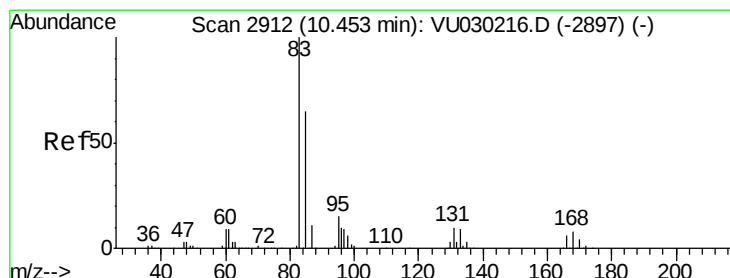
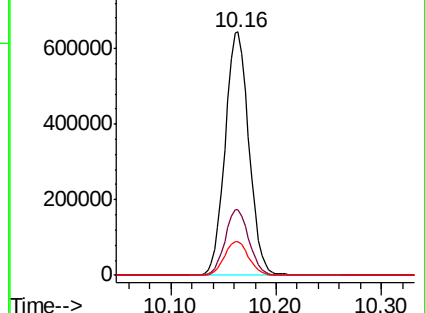
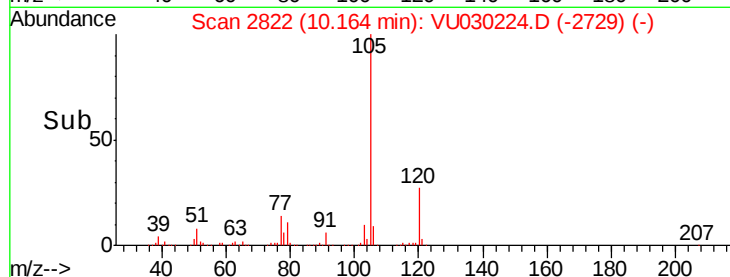
77 14.2 11.3 16.9



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: 52.481 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU030224.D

Acq: 20 Mar 2019 15:54

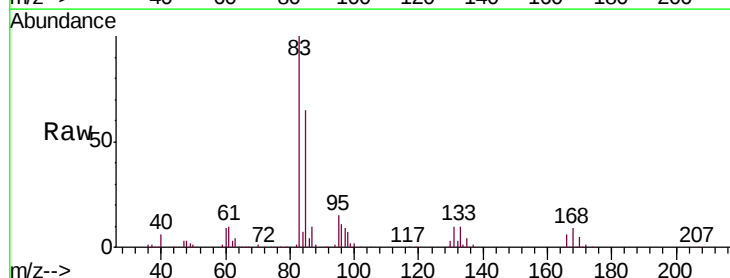
Tgt Ion: 83 Resp: 377474

Ion Ratio Lower Upper

83 100

85 64.5 45.7 84.9

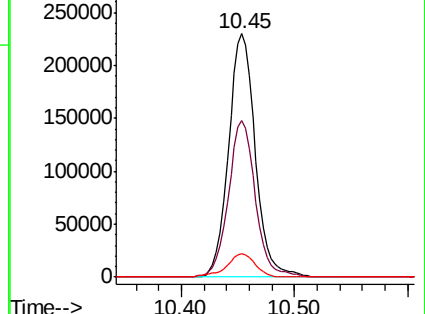
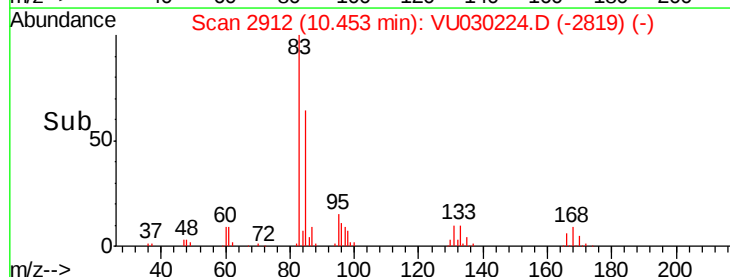
131 9.7 7.8 11.6

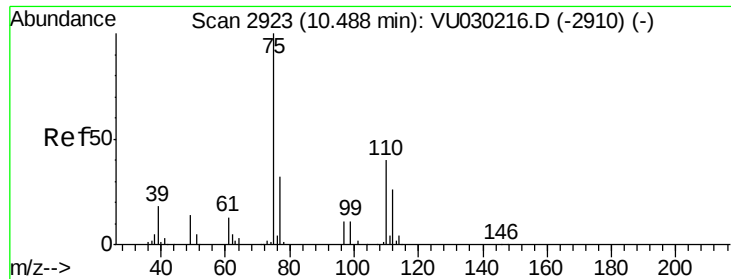


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

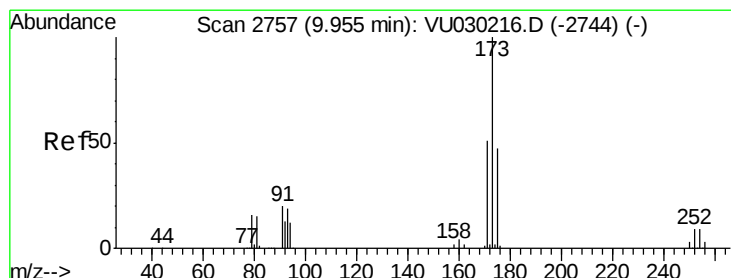
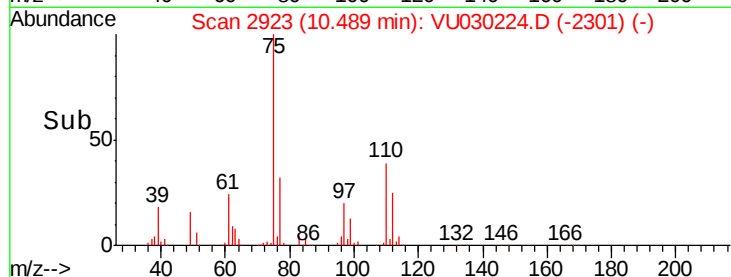
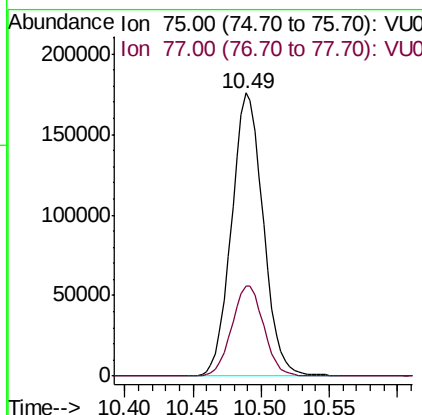
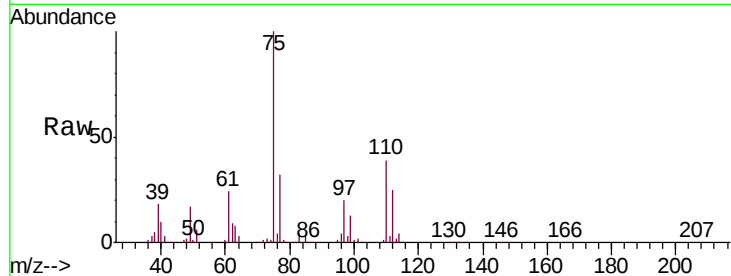




#59
 1,2,3-Trichloropropane
 Concen: 51.072 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU030224.D
 Acq: 20 Mar 2019 15:54

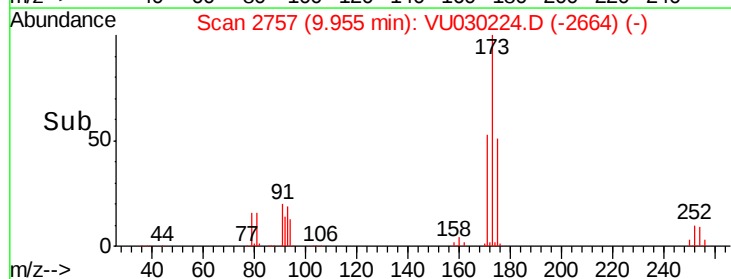
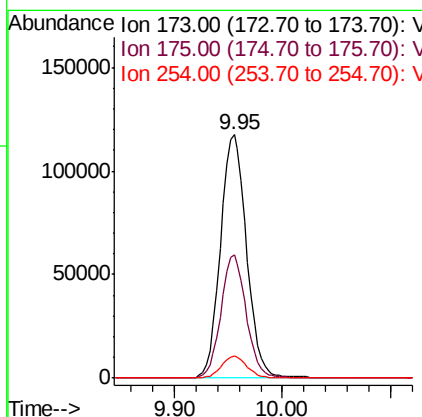
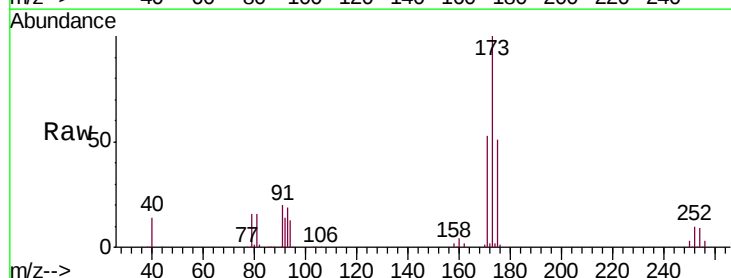
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

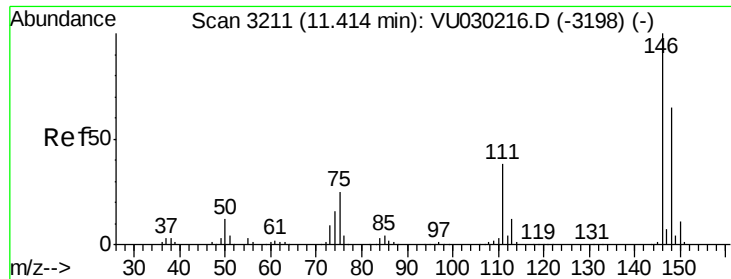
Tgt Ion: 75 Resp: 283642
 Ion Ratio Lower Upper
 75 100
 77 32.1 25.8 38.8



#61
 Bromoform
 Concen: 52.972 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU030224.D
 Acq: 20 Mar 2019 15:54

Tgt Ion: 173 Resp: 197644
 Ion Ratio Lower Upper
 173 100
 175 48.9 38.9 58.3
 254 9.0 7.4 11.0

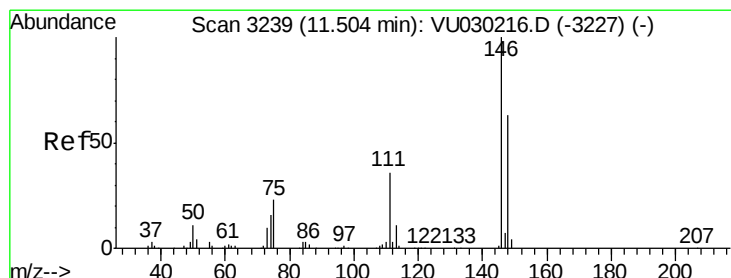
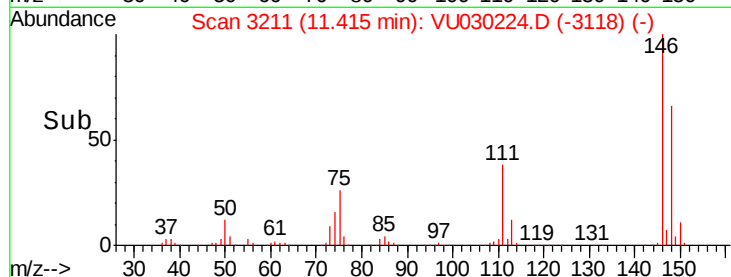
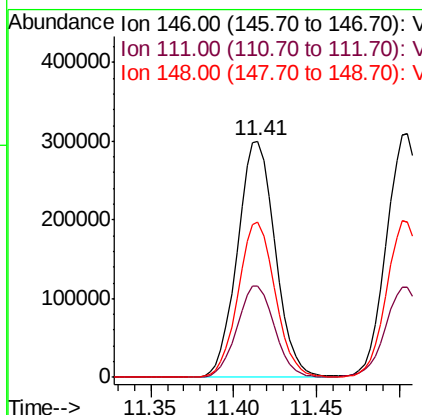
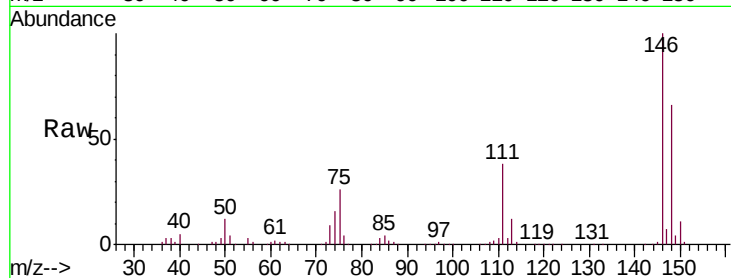




#62
 1,3-Dichlorobenzene
 Concen: 51.635 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. 0.00 min
 Lab File: VU030224.D
 Acq: 20 Mar 2019 15:54

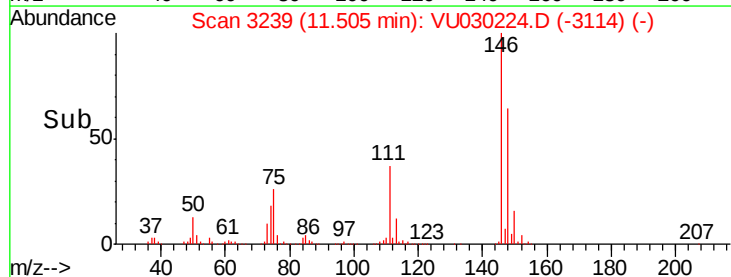
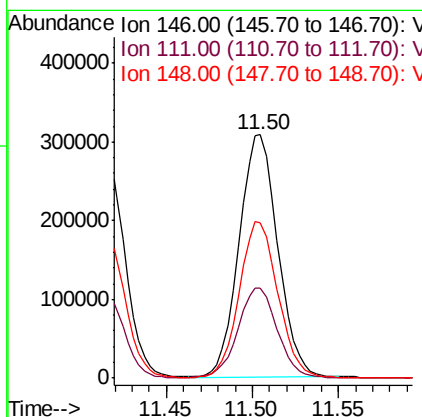
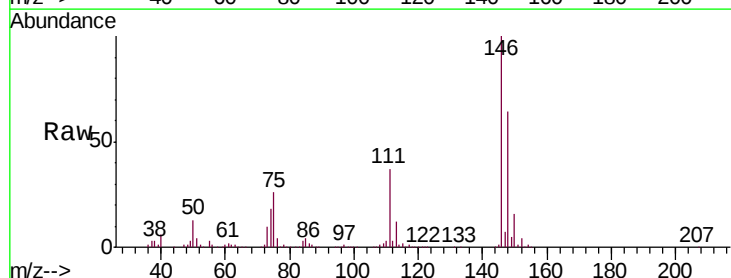
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

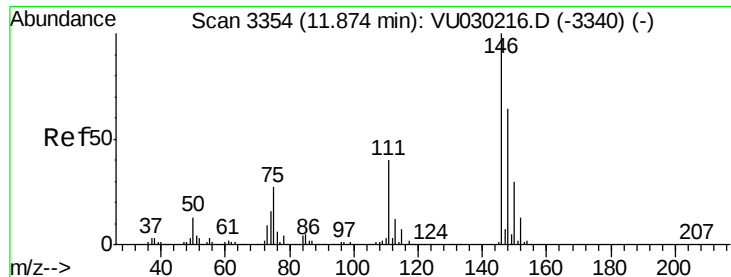
Tgt Ion:146 Resp: 475969
 Ion Ratio Lower Upper
 146 100
 111 38.5 27.2 50.4
 148 65.5 44.4 82.5



#63
 1,4-Dichlorobenzene
 Concen: 50.388 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU030224.D
 Acq: 20 Mar 2019 15:54

Tgt Ion:146 Resp: 481793
 Ion Ratio Lower Upper
 146 100
 111 36.8 25.3 46.9
 148 64.0 44.7 82.9

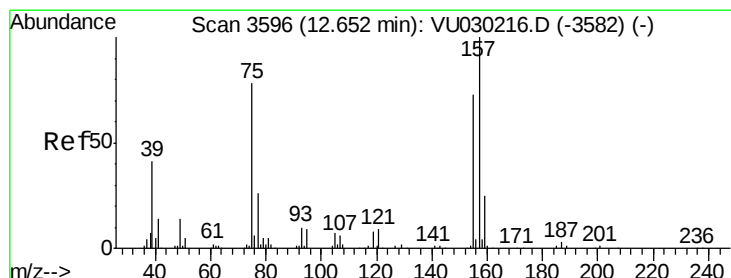
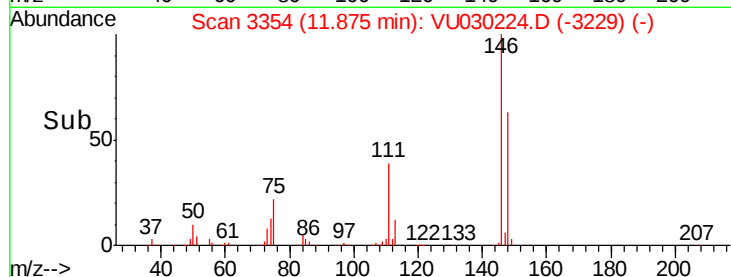
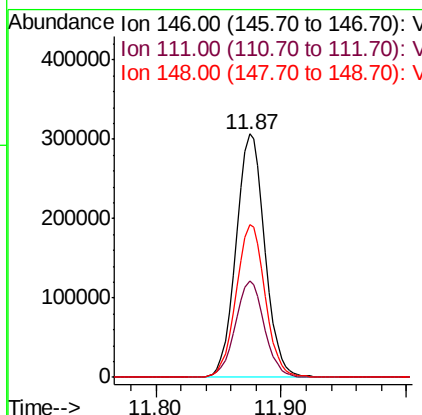
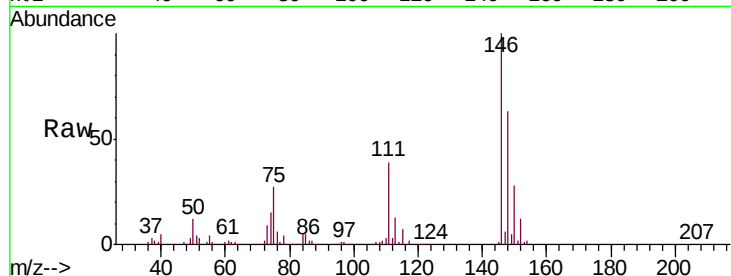




#65
 1,2-Dichlorobenzene
 Concen: 51.754 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU030224.D
 Acq: 20 Mar 2019 15:54

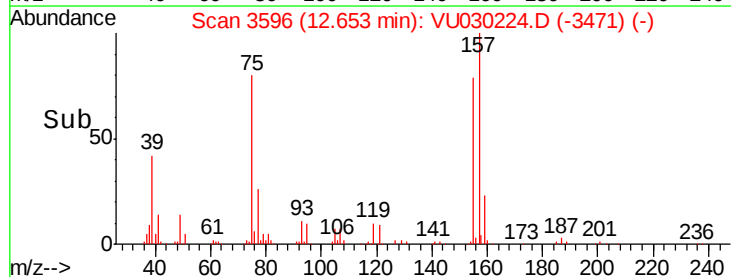
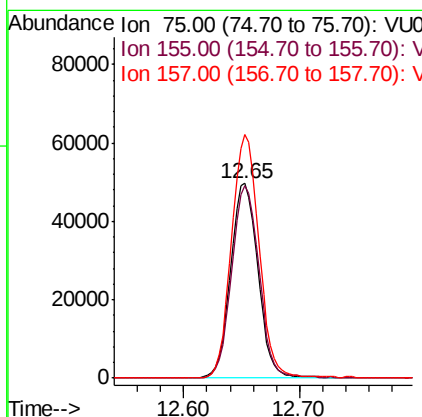
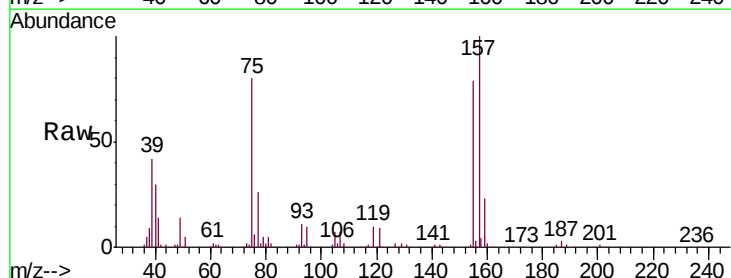
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

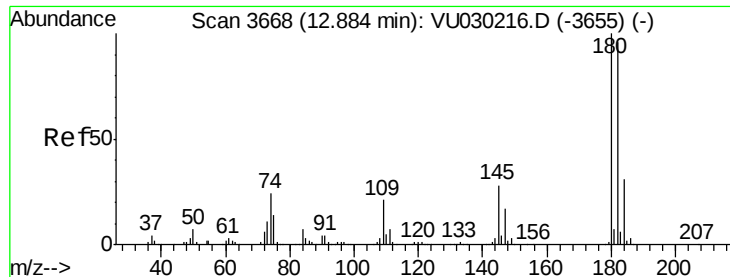
Tgt Ion: 146 Resp: 487421
 Ion Ratio Lower Upper
 146 100
 111 39.4 31.7 47.5
 148 62.7 52.0 78.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 51.531 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU030224.D
 Acq: 20 Mar 2019 15:54

Tgt Ion: 75 Resp: 81141
 Ion Ratio Lower Upper
 75 100
 155 99.0 80.7 121.1
 157 125.1 100.8 151.2

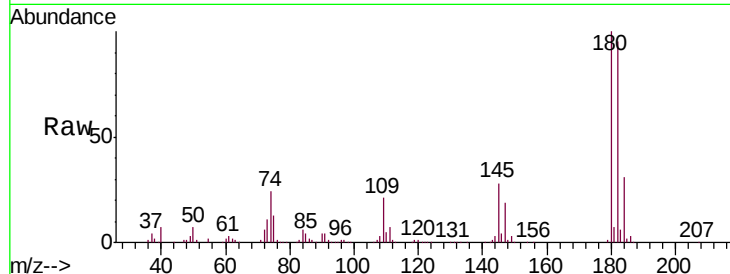




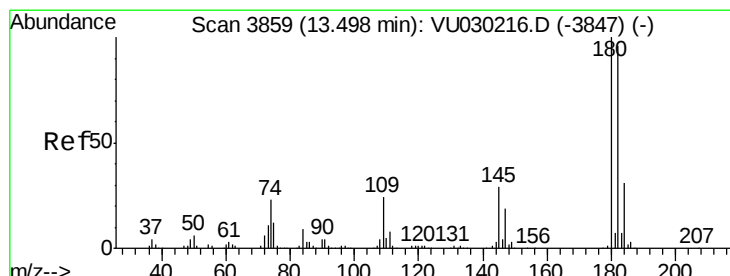
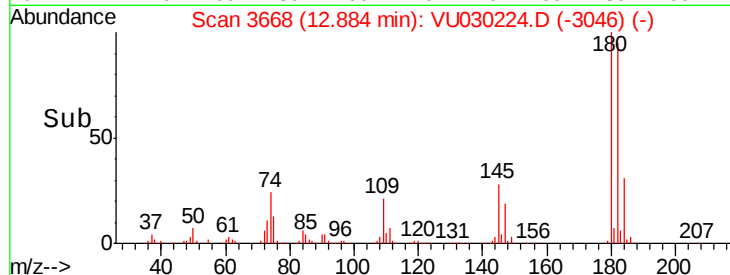
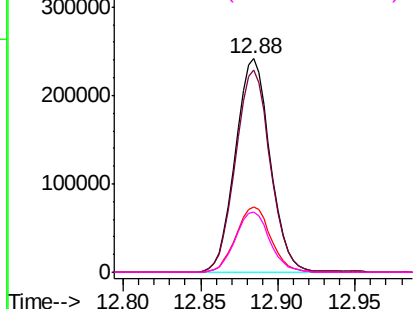
#67
 1,3,5-Trichlorobenzene
 Concen: 52.332 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU030224.D
 Acq: 20 Mar 2019 15:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Tgt Ion:180 Resp: 377010
 Ion Ratio Lower Upper
 180 100
 182 94.9 76.0 114.0
 184 30.7 24.2 36.4
 145 28.2 22.1 33.1

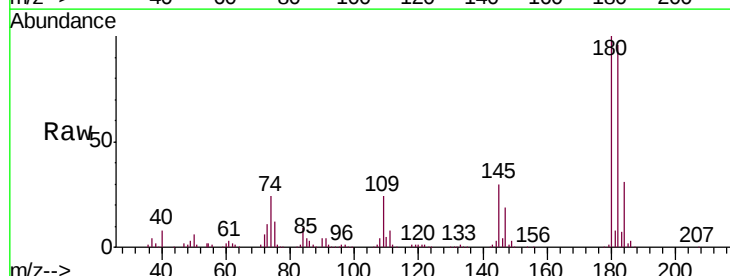


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 51.022 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU030224.D
 Acq: 20 Mar 2019 15:54

Tgt Ion:180 Resp: 325049
 Ion Ratio Lower Upper
 180 100
 182 95.7 76.4 114.6
 145 29.0 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

