

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040519\
 Data File : VU030693.D
 Acq On : 04 Apr 2019 19:01
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Quant Time: Apr 05 02:18:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Apr 05 01:55:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	495582	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	480466	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	221642	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	209417	47.34	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.68%
7) Chloroethane-d5	1.67	69	161267	48.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.06%
11) 1,1-Dichloroethene-d2	2.27	63	387548	48.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.86%
21) 2-Butanone-d5	4.17	46	357596	101.99	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	101.99%
24) Chloroform-d	4.64	84	339018	50.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.34%
26) 1,2-Dichloroethane-d4	5.30	65	225567	48.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.84%
32) Benzene-d6	5.33	84	699444	49.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.74%
36) 1,2-Dichloropropane-d6	6.32	67	237919	49.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.00%
41) Toluene-d8	7.56	98	631566	50.80	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.60%
43) trans-1,3-Dichloropropene-	7.85	79	110661	50.49	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.98%
47) 2-Hexanone-d5	8.31	63	228238	103.89	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.89%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	320387	49.41	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.82%
64) 1,2-Dichlorobenzene-d4	11.86	152	217536	49.91	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.82%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.20	85	211847	48.665	ug/L	99
3) Chloromethane	1.32	50	264076	46.899	ug/L	99
5) Vinyl chloride	1.40	62	263358	48.317	ug/L	97
6) Bromomethane	1.62	94	138834	49.164	ug/L	99
8) Chloroethane	1.69	64	153760	49.460	ug/L	98
9) Trichlorofluoromethane	1.88	101	308685	48.604	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	171549	48.342	ug/L	99
12) 1,1-Dichloroethene	2.28	96	167067	48.768	ug/L	92
13) Acetone	2.32	43	333235	92.879	ug/L	100
14) Carbon disulfide	2.47	76	531250	49.920	ug/L	100
15) Methyl Acetate	2.61	43	275287	49.486	ug/L	97
16) Methylene chloride	2.69	84	200505	48.180	ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	177328	48.752	ug/L	99
18) Methyl tert-butyl Ether	2.99	73	590980	48.504	ug/L	99
19) 1,1-Dichloroethane	3.44	63	367262	48.926	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	197628	49.207	ug/L	97
22) 2-Butanone	4.25	43	433098	102.956	ug/L	95

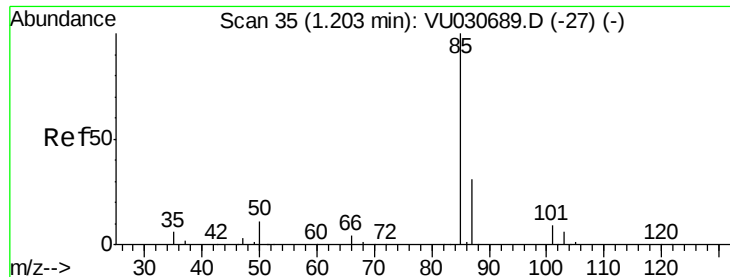
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040519\
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 Quant Title : VOC Analysis
 QLast Update : Fri Apr 05 01:55:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	94423	49.729	ug/L	98
25) Chloroform	4.67	83	363056	48.122	ug/L	99
27) 1,2-Dichloroethane	5.40	62	276534	48.025	ug/L	99
29) Cyclohexane	4.99	56	349353	51.016	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	287950	49.177	ug/L	99
31) Carbon tetrachloride	5.13	117	249067	49.361	ug/L	99
33) Benzene	5.38	78	783878	49.856	ug/L	100
34) Trichloroethene	6.18	95	191847	49.749	ug/L	99
35) Methylcyclohexane	6.41	83	313475	52.673	ug/L	98
37) 1,2-Dichloropropane	6.43	63	219618	49.329	ug/L	99
38) Bromodichloromethane	6.75	83	263201	49.005	ug/L	97
39) cis-1,3-Dichloropropene	7.26	75	328768	51.881	ug/L	97
40) 4-Methyl-2-pentanone	7.45	43	725477	101.332	ug/L	99
42) Toluene	7.63	91	818809	51.018	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	293719	52.595	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	186796	49.471	ug/L	97
46) Tetrachloroethene	8.22	164	137127	48.910	ug/L	95
48) 2-Hexanone	8.36	43	584918	104.718	ug/L	99
49) Dibromochloromethane	8.47	129	194792	48.618	ug/L	99
50) 1,2-Dibromoethane	8.58	107	197607	48.364	ug/L	98
51) Chlorobenzene	9.12	112	487841	49.560	ug/L	99
52) Ethylbenzene	9.25	91	896491	51.245	ug/L	100
53) m,p-Xylene	9.37	106	315127	51.648	ug/L	98
54) o-xylene	9.77	106	306616	50.522	ug/L	96
55) Styrene	9.79	104	541076	51.977	ug/L	99
56) Isopropylbenzene	10.16	105	823607	51.544	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	330946	48.457	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	262191	49.172	ug/L	99
61) Bromoform	9.95	173	145347	49.641	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	351023	50.110	ug/L	97
63) 1,4-Dichlorobenzene	11.50	146	355500	49.892	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	344760	49.065	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	74499	49.874	ug/L	93
67) 1,3,5-Trichlorobenzene	12.88	180	268042	52.359	ug/L	97
68) 1,2,4-trichlorobenzene	13.50	180	236296	54.288	ug/L	100
69) Naphthalene	13.74	128	800563	56.736	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	242717	53.371	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 48.665 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

Instrument :

MSVOA_U

ClientSampleId :

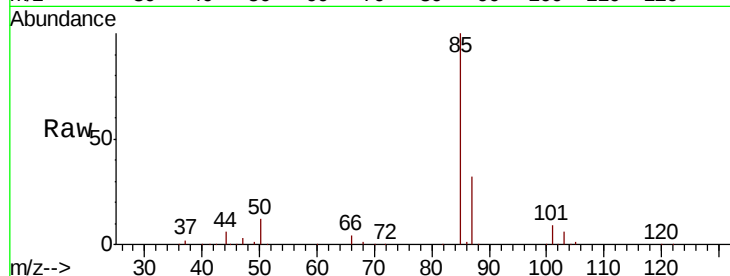
VSTD05048

Tot Ion: 85 Resp: 211847

Ion Ratio Lower Upper

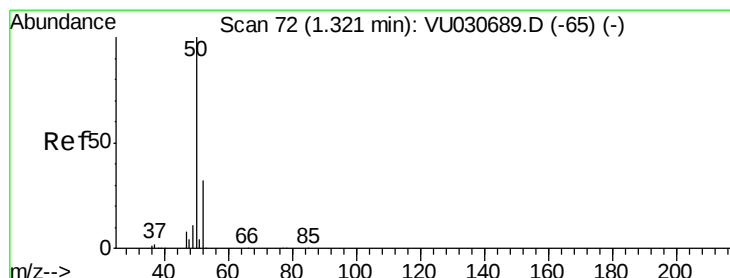
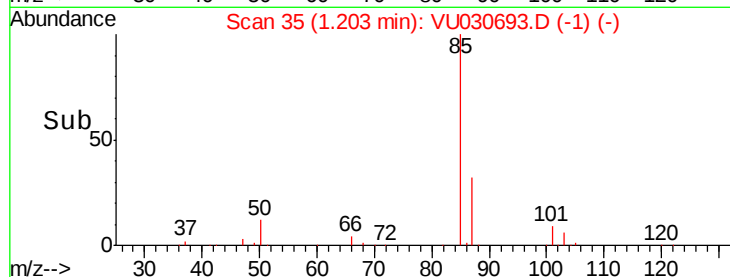
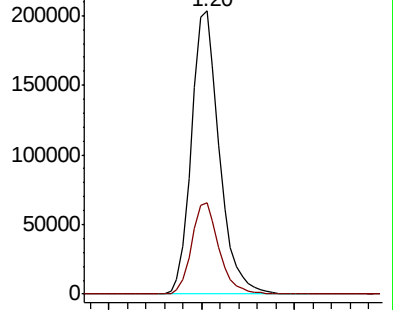
85 100

87 31.8 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU030689.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU030689.D (-27) (-)



#3

Chloromethane

Concen: 46.899 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU030693.D

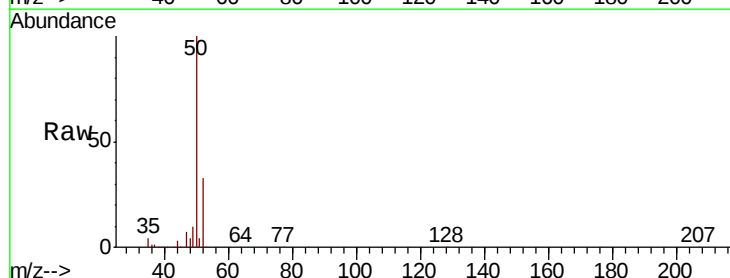
Acq: 04 Apr 2019 19:01

Tgt Ion: 50 Resp: 264076

Ion Ratio Lower Upper

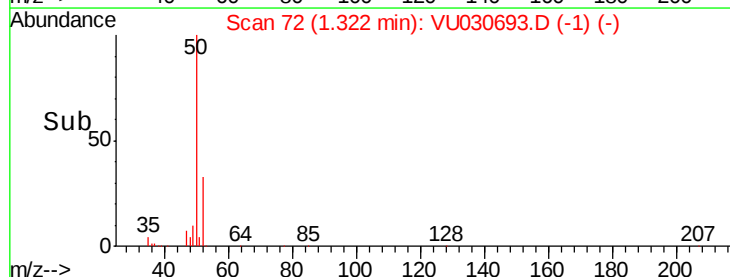
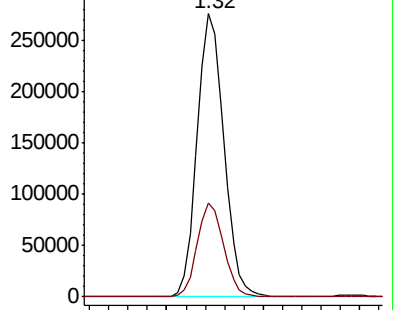
50 100

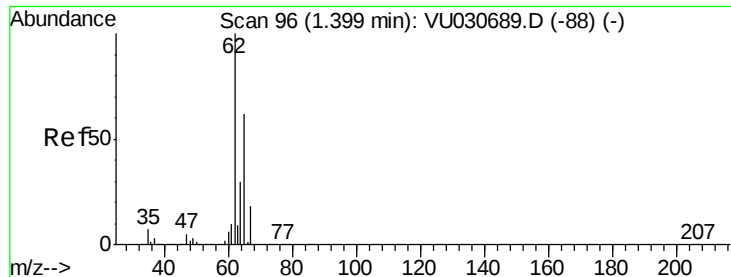
52 33.1 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VU030689.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU030689.D (-65) (-)





#5

Vinyl chloride

Concen: 48.317 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

Instrument :

MSVOA_U

ClientSampled :

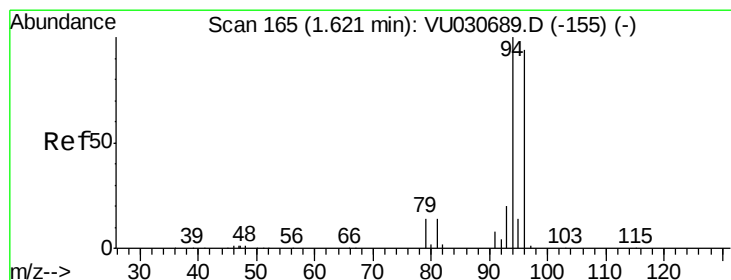
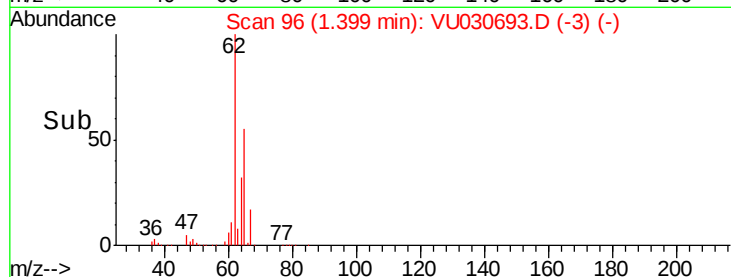
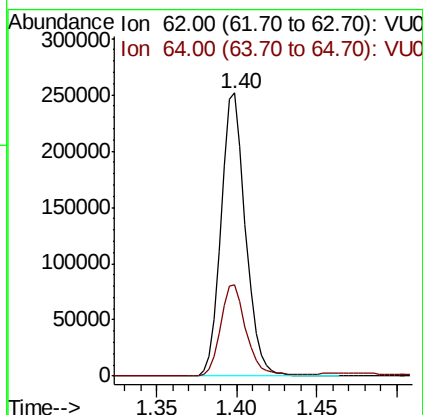
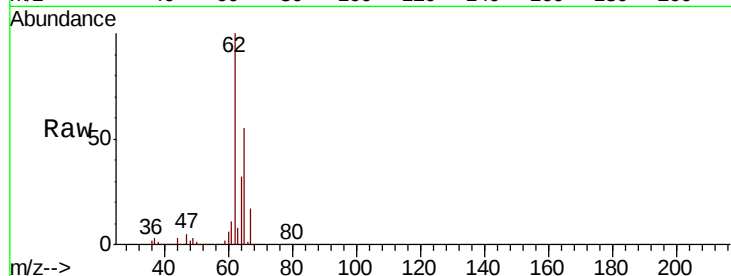
VSTD05048

Tot Ion: 62 Resp: 263358

Ion Ratio Lower Upper

62 100

64 32.3 21.5 39.9



#6

Bromomethane

Concen: 49.164 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU030693.D

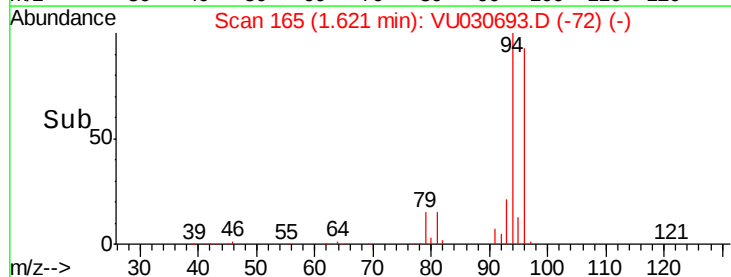
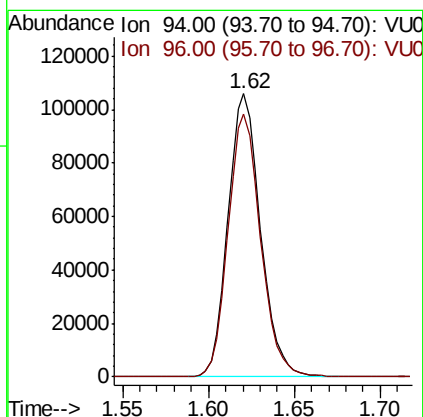
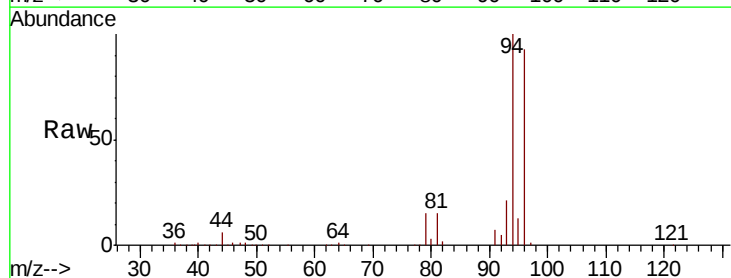
Acq: 04 Apr 2019 19:01

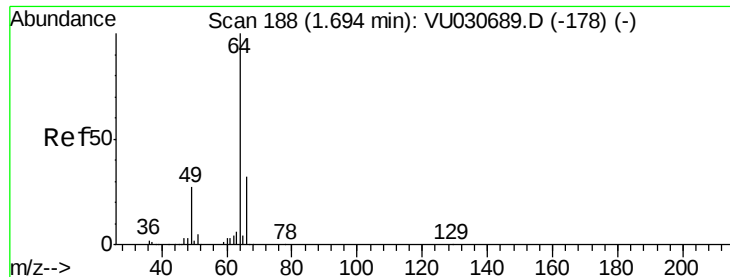
Tgt Ion: 94 Resp: 138834

Ion Ratio Lower Upper

94 100

96 93.0 65.5 121.7





#8

Chloroethane

Concen: 49.460 ug/L

RT: 1.69 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

Instrument :

MSVOA_U

ClientSampleId :

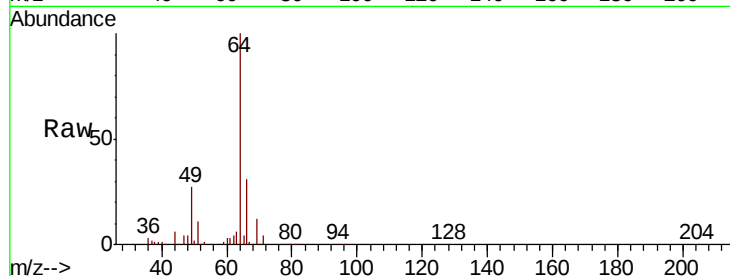
VSTD05048

Tot Ion: 64 Resp: 153760

Ion Ratio Lower Upper

64 100

66 31.1 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VU030693.D (-64) (-)

Ion 66.00 (65.70 to 66.70): VU030693.D (-66) (-)

1.69

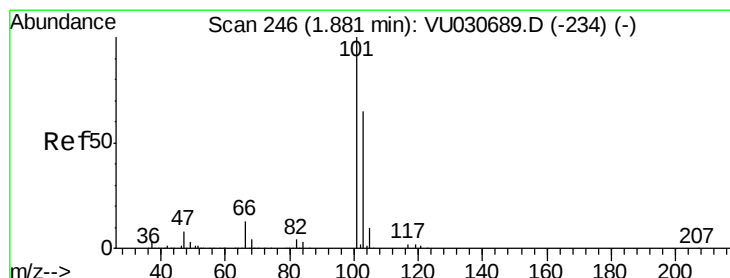
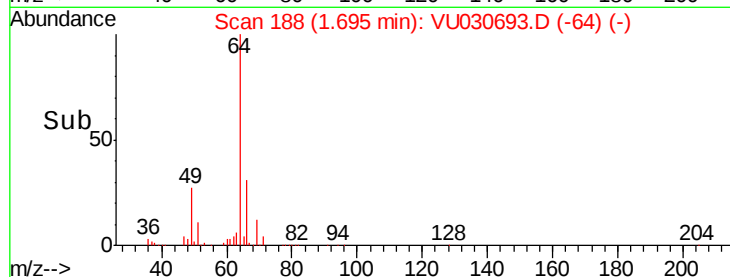
100000

50000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 48.604 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU030693.D

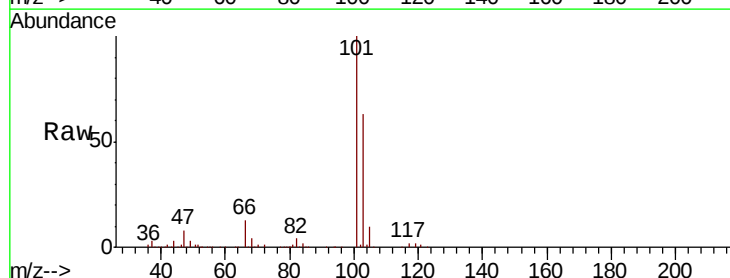
Acq: 04 Apr 2019 19:01

Tgt Ion:101 Resp: 308685

Ion Ratio Lower Upper

101 100

103 64.3 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VU030693.D (-101) (-)

Ion 103.00 (102.70 to 103.70): VU030693.D (-103) (-)

1.88

250000

200000

150000

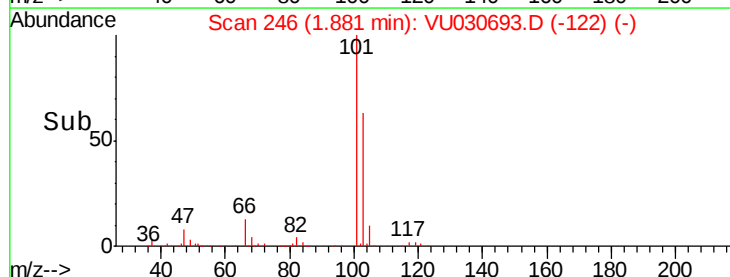
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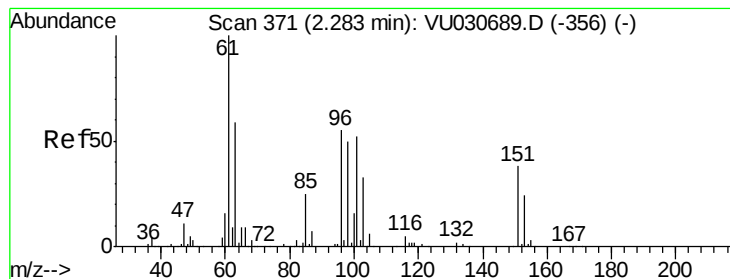
50000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 48.342 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

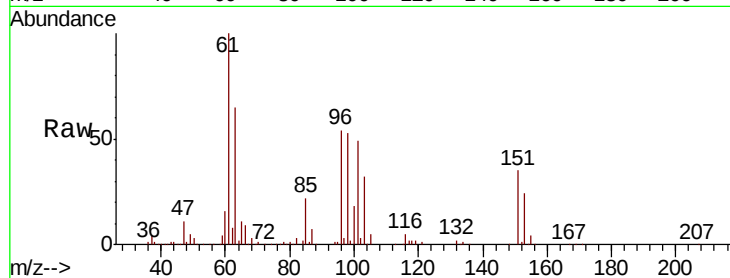
Tot Ion:101 Resp: 171549

Ion Ratio Lower Upper

101 100

85 45.3 36.8 55.2

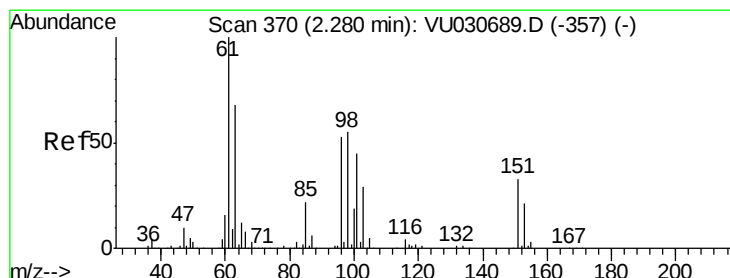
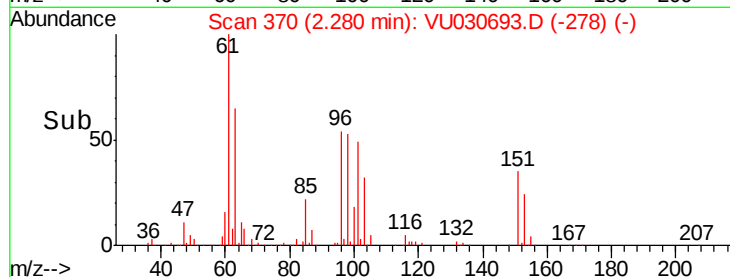
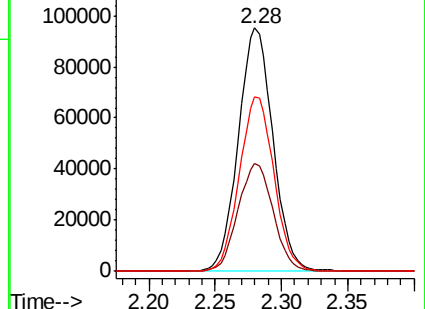
151 72.3 57.4 86.0



Abundance Ion 101.00 (100.70 to 101.70): VU030693.D (-278) (-)

Ion 85.00 (84.70 to 85.70): VU030693.D (-278) (-)

Ion 151.00 (150.70 to 151.70): VU030693.D (-278) (-)



#12

1,1-Dichloroethene

Concen: 48.768 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

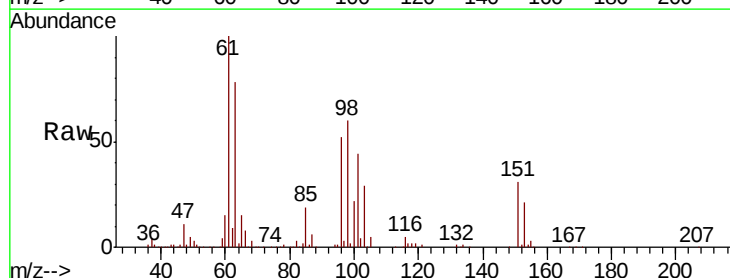
Tgt Ion: 96 Resp: 167067

Ion Ratio Lower Upper

96 100

61 191.2 132.0 245.2

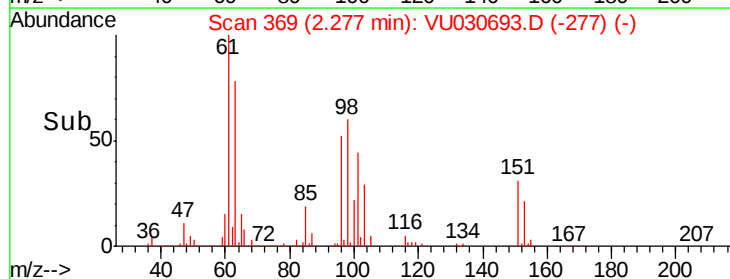
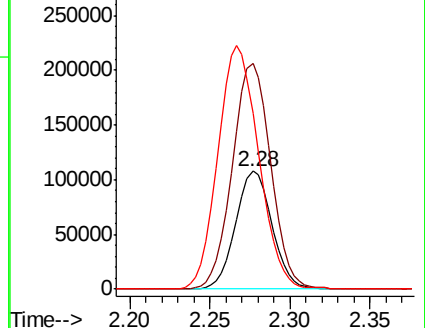
63 148.8 90.9 168.9

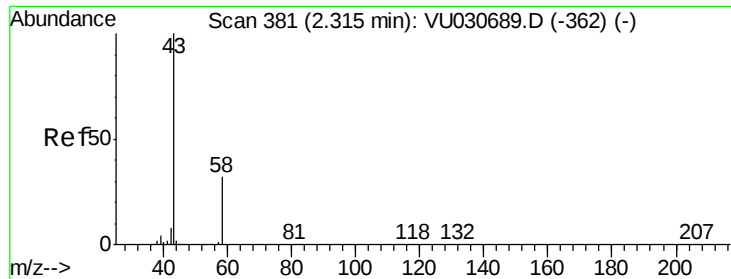


Abundance Ion 96.00 (95.70 to 96.70): VU030693.D (-277) (-)

Ion 61.00 (60.70 to 61.70): VU030693.D (-277) (-)

Ion 63.00 (62.70 to 63.70): VU030693.D (-277) (-)

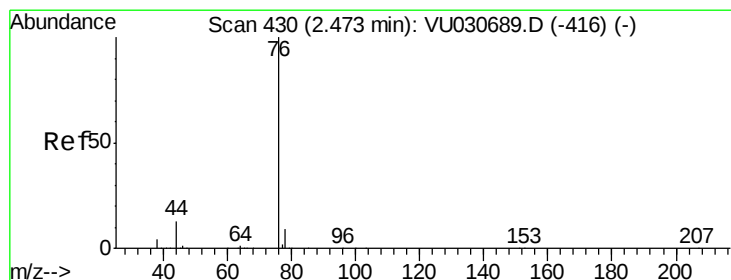
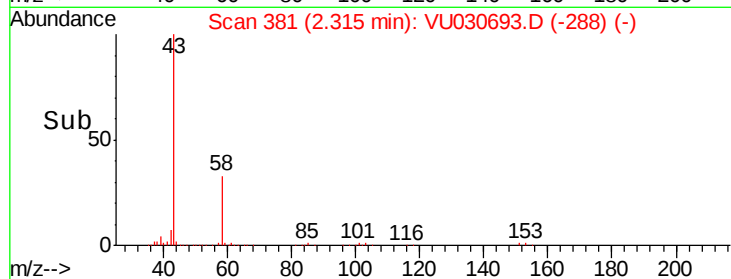
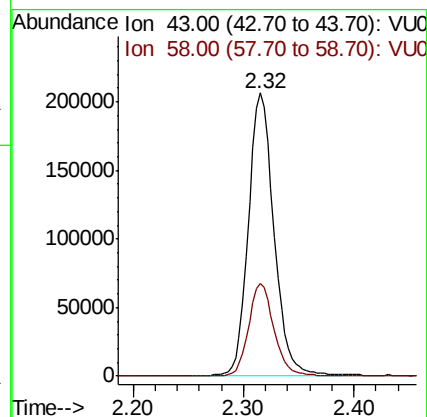
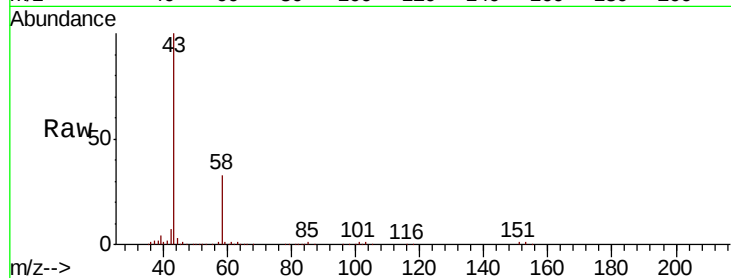




#13
Acetone
Concen: 92.879 ug/L
RT: 2.32 min Scan# 381
Delta R.T. 0.00 min
Lab File: VU030693.D
Acq: 04 Apr 2019 19:01

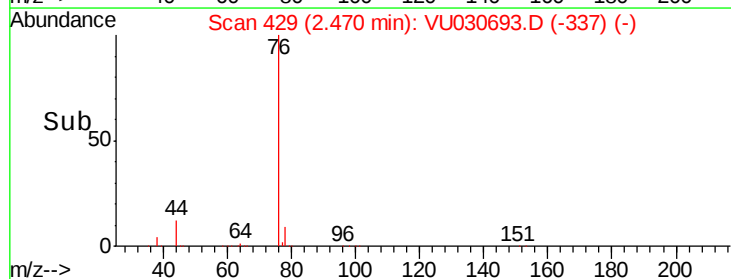
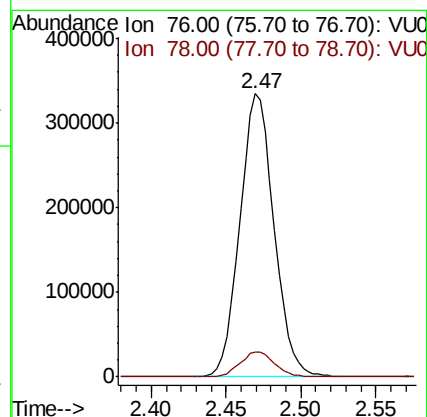
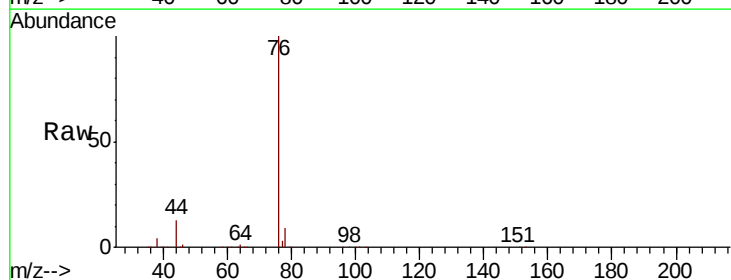
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

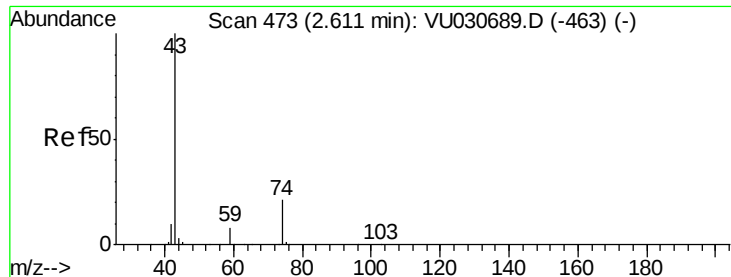
Tot Ion: 43 Resp: 333235
Ion Ratio Lower Upper
43 100
58 32.1 0.0 64.0



#14
Carbon disulfide
Concen: 49.920 ug/L
RT: 2.47 min Scan# 429
Delta R.T. -0.00 min
Lab File: VU030693.D
Acq: 04 Apr 2019 19:01

Tgt Ion: 76 Resp: 531250
Ion Ratio Lower Upper
76 100
78 8.8 7.0 10.4

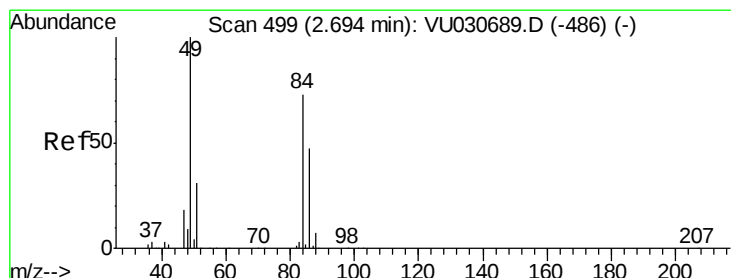
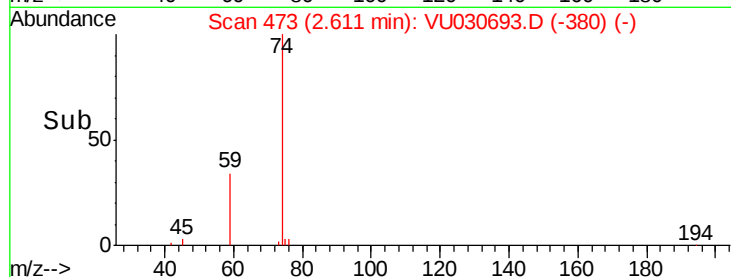
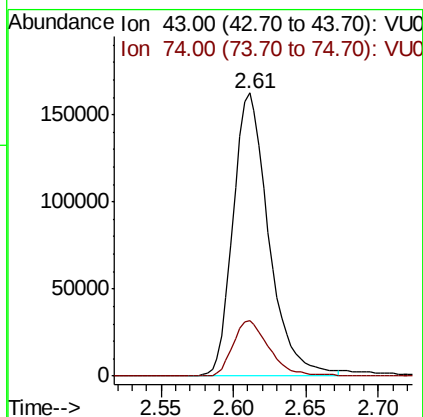
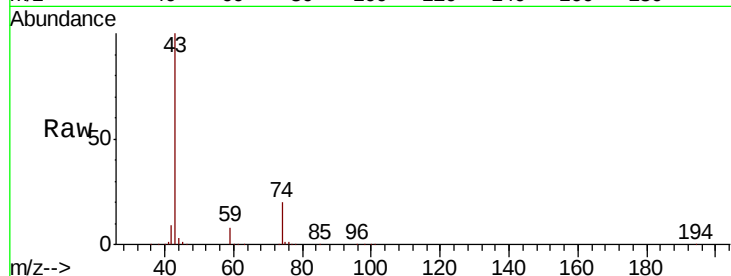




#15
Methyl Acetate
Concen: 49.486 ug/L
RT: 2.61 min Scan# 473
Delta R.T. 0.00 min
Lab File: VU030693.D
Acq: 04 Apr 2019 19:01

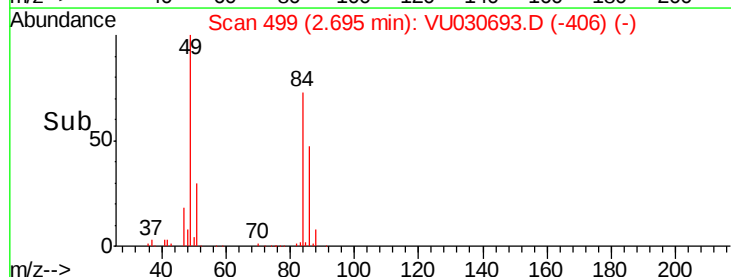
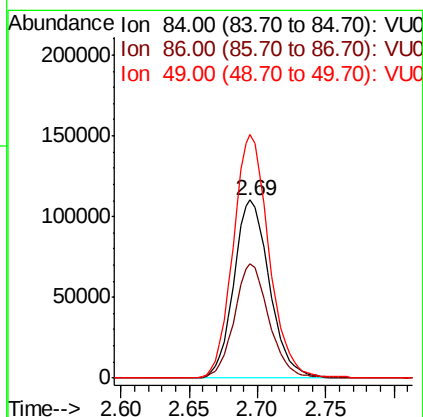
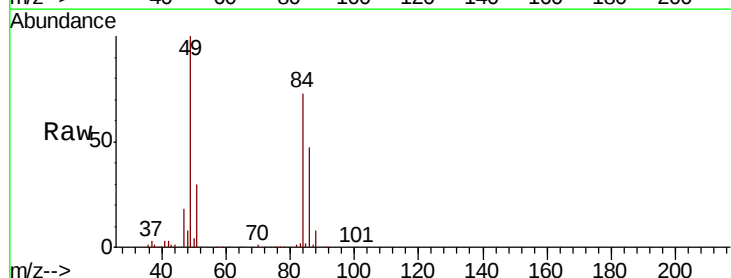
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

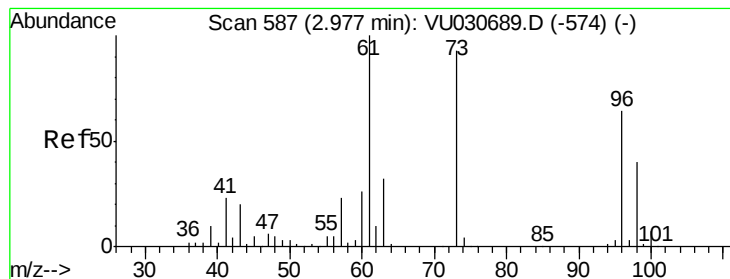
Tot Ion: 43 Resp: 275287
Ion Ratio Lower Upper
43 100
74 19.9 17.1 25.7



#16
Methylene chloride
Concen: 48.180 ug/L
RT: 2.69 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU030693.D
Acq: 04 Apr 2019 19:01

Tgt Ion: 84 Resp: 200505
Ion Ratio Lower Upper
84 100
86 64.0 45.1 83.7
49 136.9 96.5 179.1





#17

trans-1,2-Dichloroethene

Concen: 48.752 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

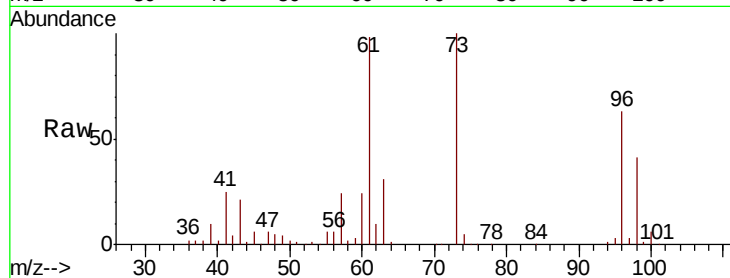
Tot Ion: 96 Resp: 177328

Ion Ratio Lower Upper

96 100

61 156.3 109.5 203.3

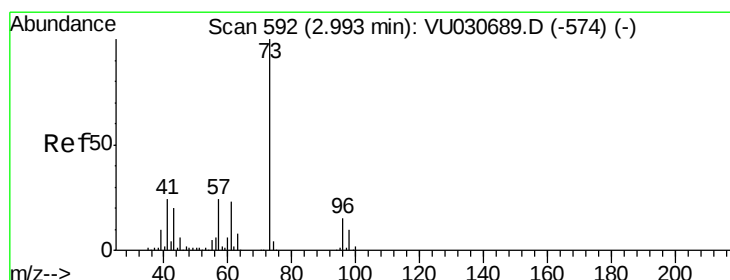
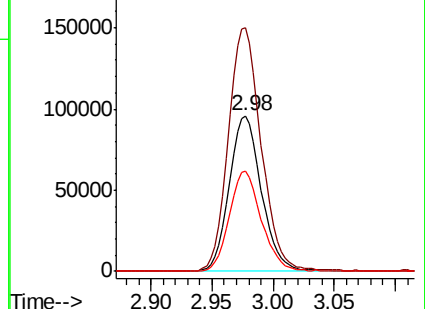
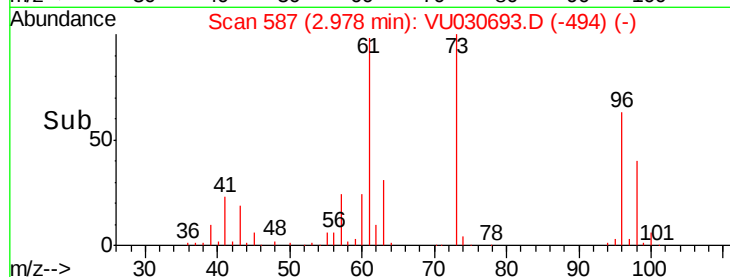
98 64.4 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU030693.D (-494) (-)

Ion 61.00 (60.70 to 61.70): VU030693.D (-494) (-)

Ion 98.00 (97.70 to 98.70): VU030693.D (-494) (-)



#18

Methyl tert-butyl Ether

Concen: 48.504 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

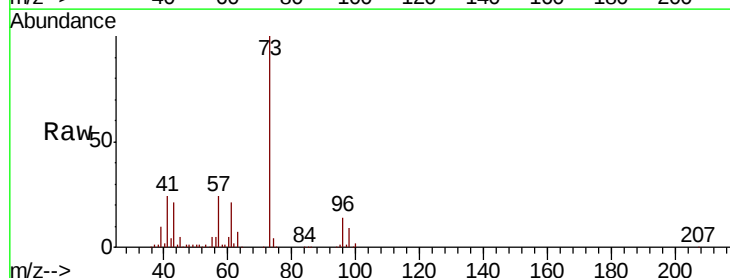
Tgt Ion: 73 Resp: 590980

Ion Ratio Lower Upper

73 100

43 20.8 16.4 24.6

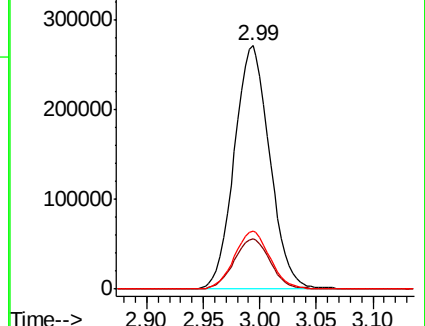
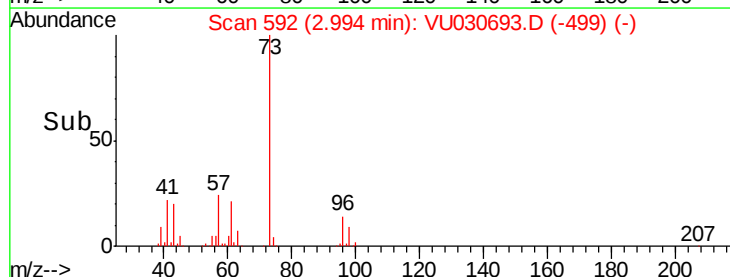
57 24.0 19.0 28.4

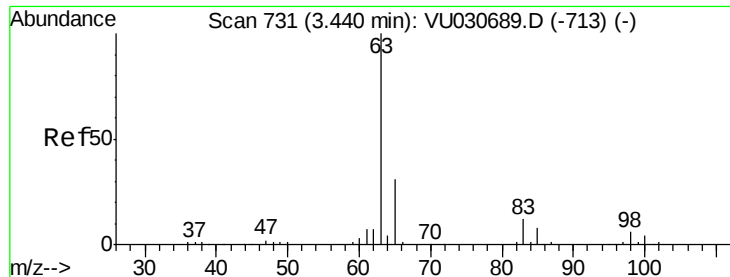


Abundance Ion 73.00 (72.70 to 73.70): VU030693.D (-499) (-)

Ion 43.00 (42.70 to 43.70): VU030693.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU030693.D (-499) (-)

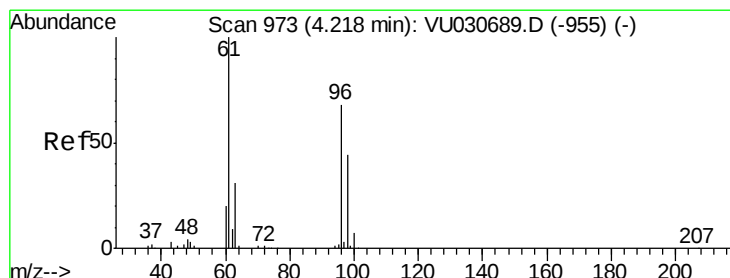
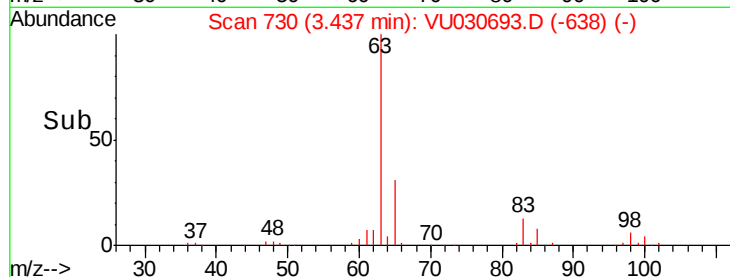
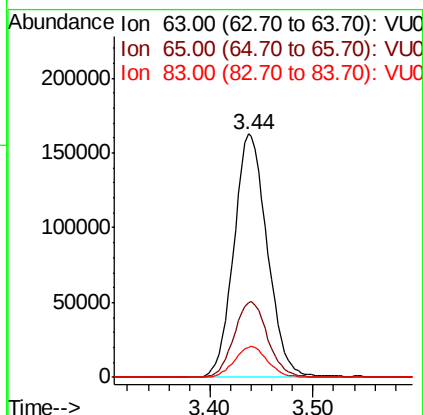
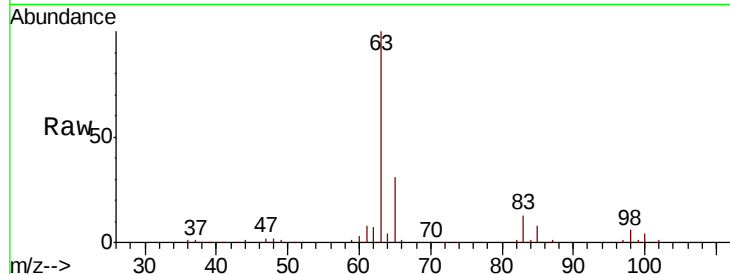




#19
 1,1-Dichloroethane
 Concen: 48.926 ug/L
 RT: 3.44 min Scan# 730
 Delta R.T. -0.00 min
 Lab File: VU030693.D
 Acq: 04 Apr 2019 19:01

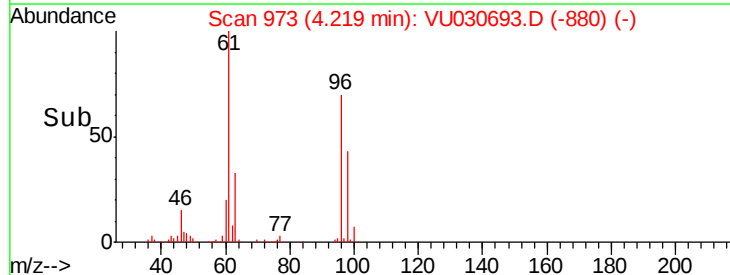
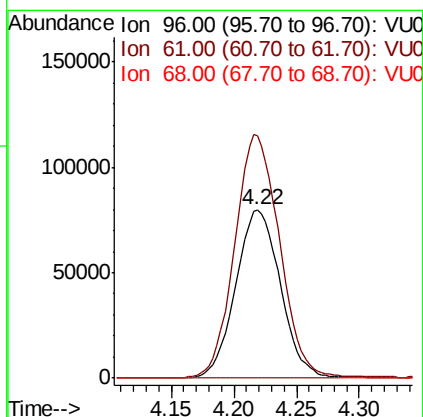
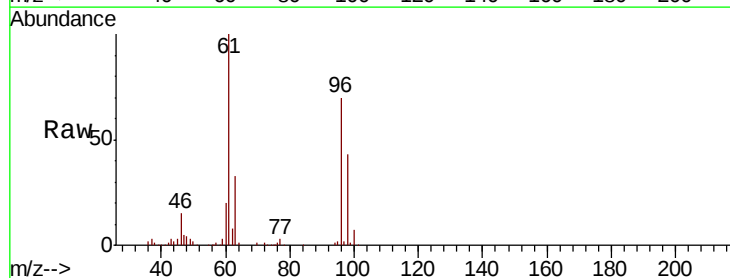
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

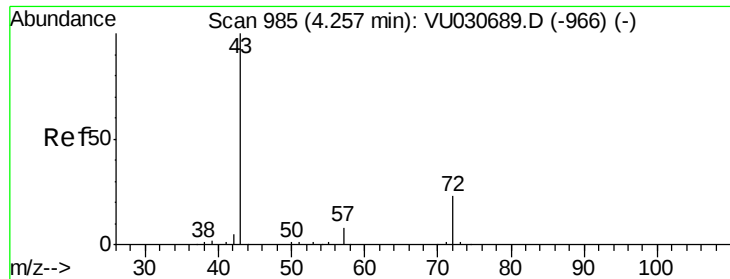
Tot Ion: 63 Resp: 367262
 Ion Ratio Lower Upper
 63 100
 65 30.8 21.4 39.8
 83 12.5 8.5 15.7



#20
 cis-1,2-Dichloroethene
 Concen: 49.207 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU030693.D
 Acq: 04 Apr 2019 19:01

Tgt Ion: 96 Resp: 197628
 Ion Ratio Lower Upper
 96 100
 61 143.8 102.9 191.1
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 102.956 ug/L

RT: 4.25 min Scan# 984

Delta R.T. -0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

Instrument :

MSVOA_U

ClientSampleId :

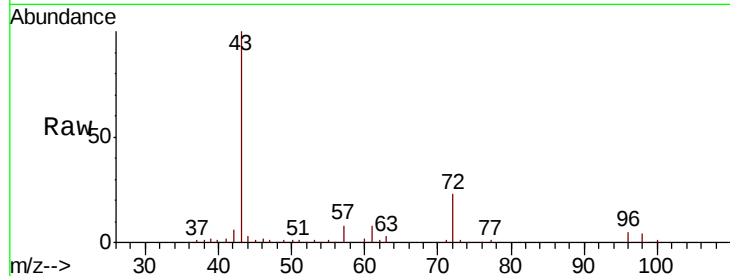
VSTD05048

Tot Ion: 43 Resp: 433098

Ion Ratio Lower Upper

43 100

72 23.8 10.8 32.4



Abundance Ion 43.00 (42.70 to 43.70): VU030689.D (-966) (-)

Ion 72.00 (71.70 to 72.70): VU030689.D (-966) (-)

4.25

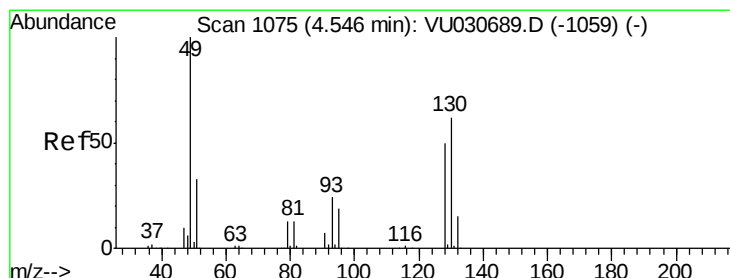
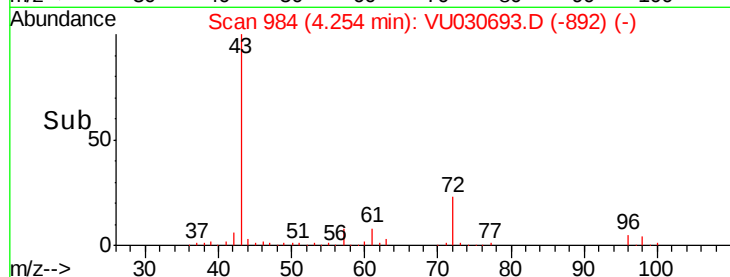
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 49.729 ug/L

RT: 4.54 min Scan# 1073

Delta R.T. -0.01 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

Tgt Ion:128 Resp: 94423

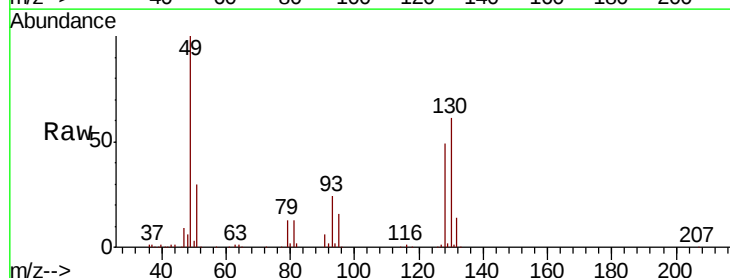
Ion Ratio Lower Upper

128 100

49 203.7 139.9 259.7

130 123.6 86.6 160.8

51 61.3 52.2 78.4



Abundance Ion 128.00 (127.70 to 128.70): VU030689.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU030689.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU030689.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU030689.D (-1059) (-)

120000

100000

80000

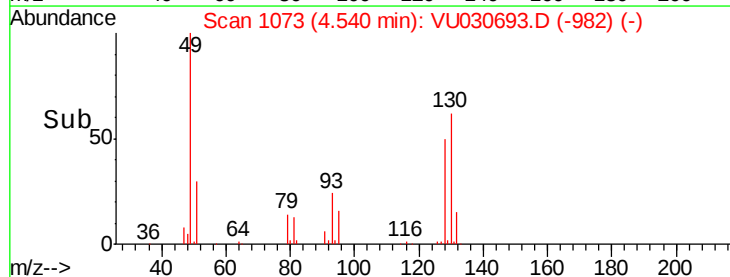
60000

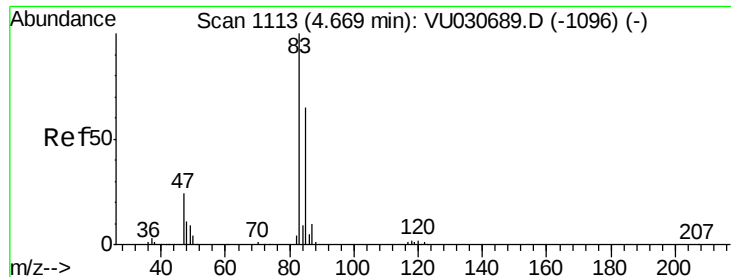
40000

20000

0

Time-->

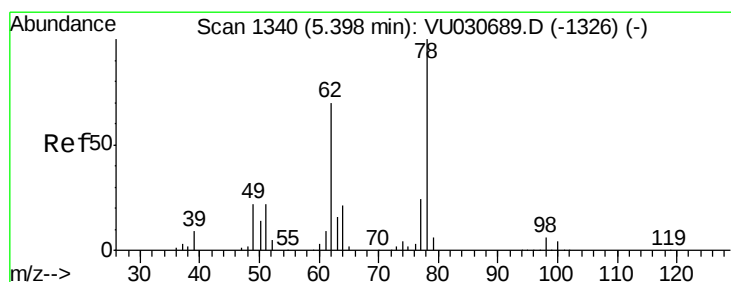
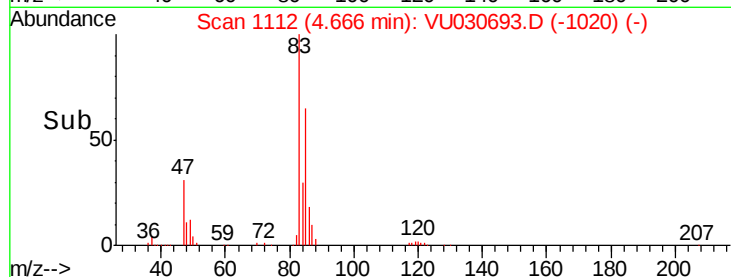
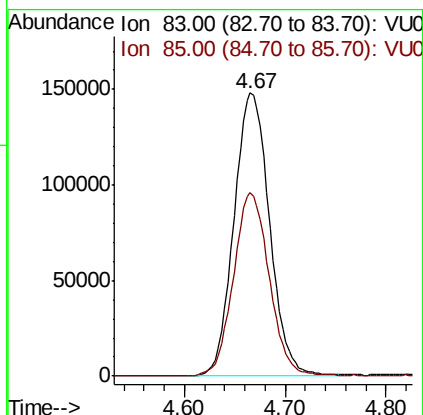
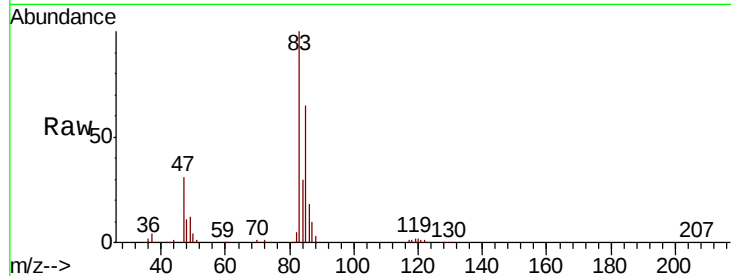




#25
Chloroform
Concen: 48.122 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VU030693.D
Acq: 04 Apr 2019 19:01

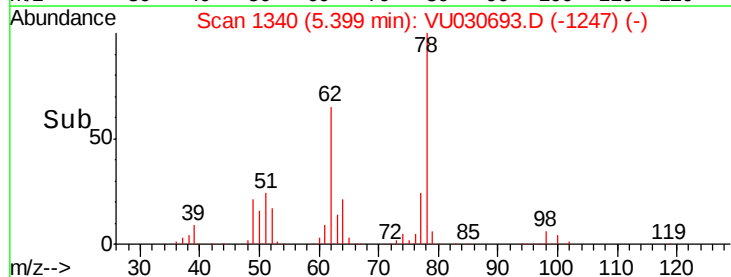
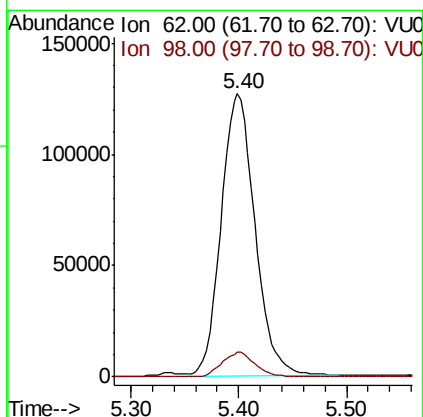
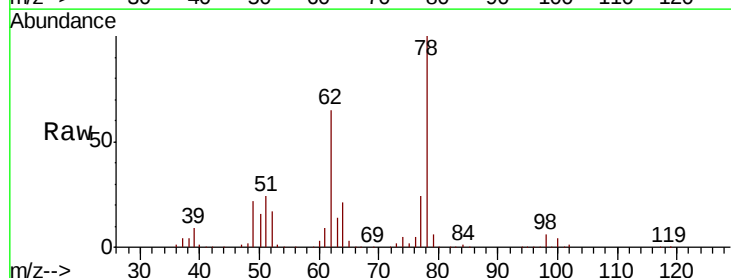
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

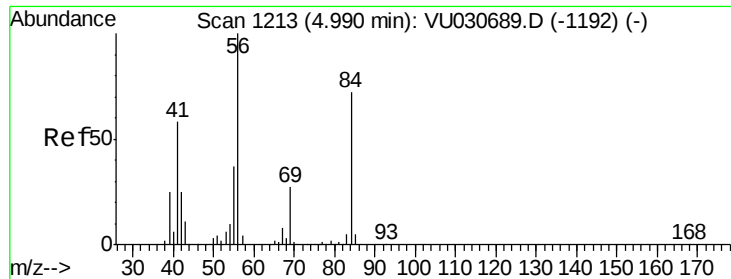
Tot Ion: 83 Resp: 363056
Ion Ratio Lower Upper
83 100
85 64.8 45.8 85.0



#27
1,2-Dichloroethane
Concen: 48.025 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VU030693.D
Acq: 04 Apr 2019 19:01

Tgt Ion: 62 Resp: 276534
Ion Ratio Lower Upper
62 100
98 8.7 7.2 10.8

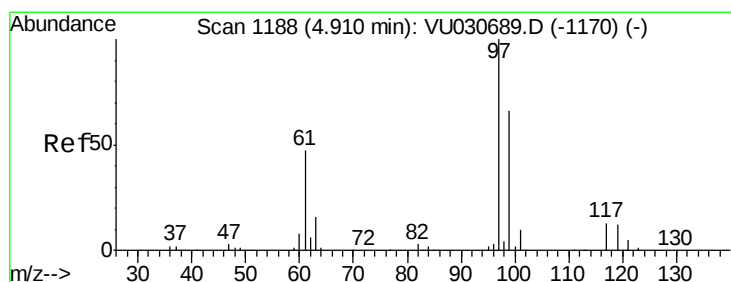
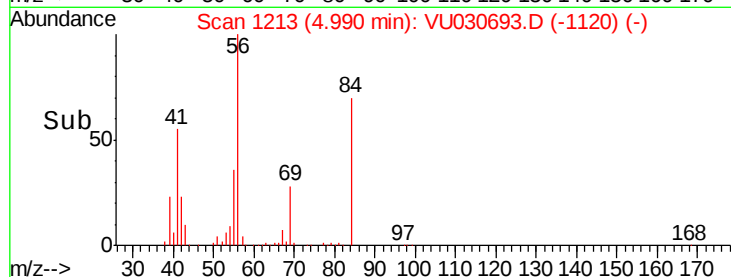
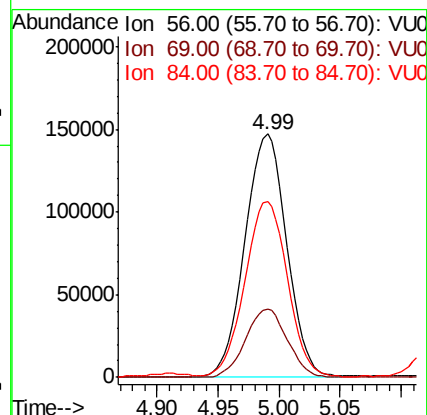
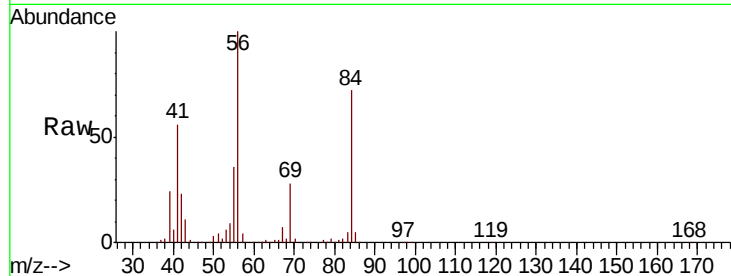




#29
Cyclohexane
Concen: 51.016 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU030693.D
Acq: 04 Apr 2019 19:01

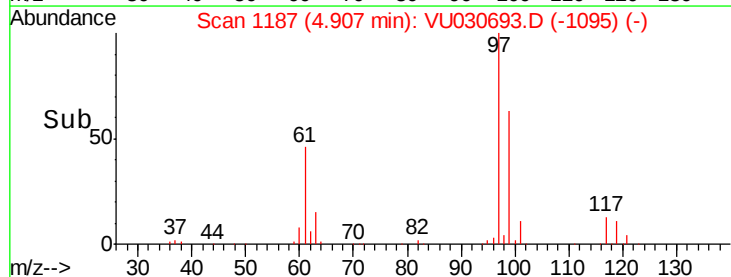
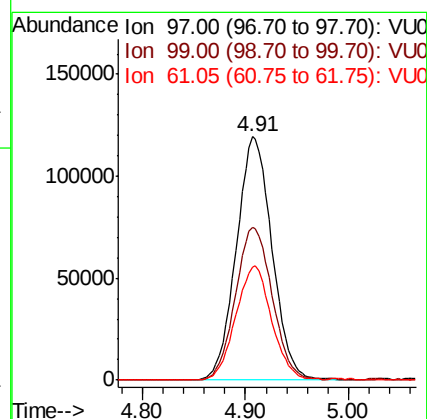
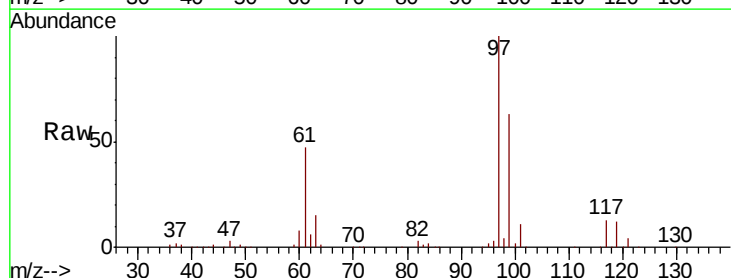
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

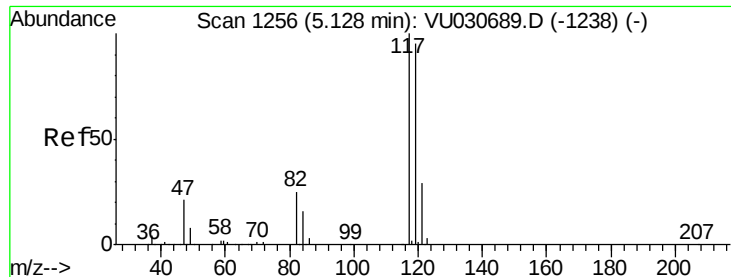
Tot Ion: 56 Resp: 349353
Ion Ratio Lower Upper
56 100
69 27.9 22.0 33.0
84 73.0 58.2 87.2



#30
1,1,1-Trichloroethane
Concen: 49.177 ug/L
RT: 4.91 min Scan# 1187
Delta R.T. -0.00 min
Lab File: VU030693.D
Acq: 04 Apr 2019 19:01

Tgt Ion: 97 Resp: 287950
Ion Ratio Lower Upper
97 100
99 64.7 51.4 77.2
61 46.9 37.1 55.7

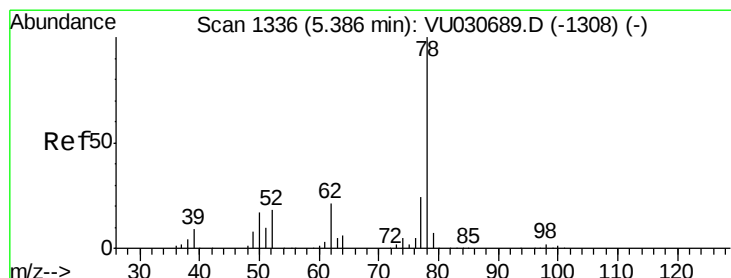
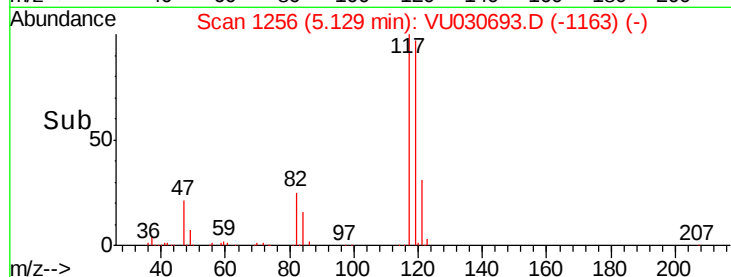
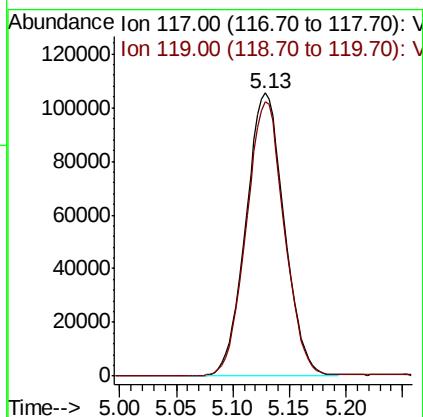
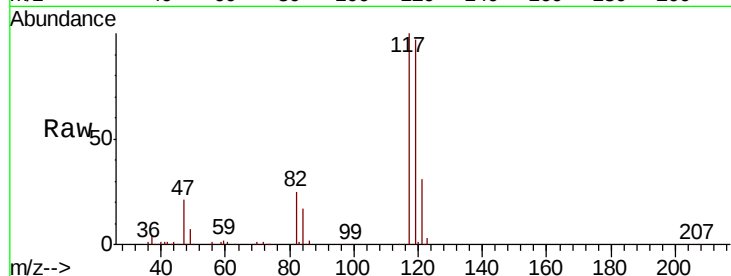




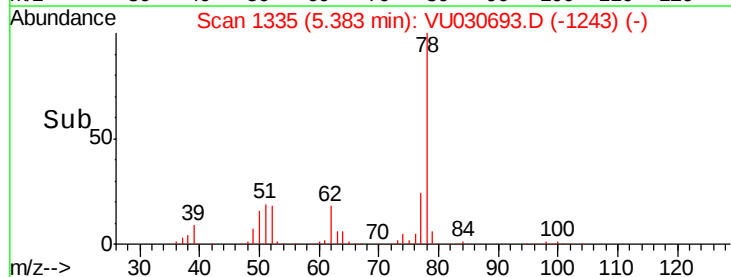
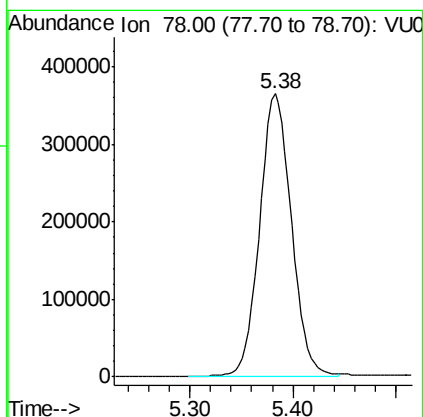
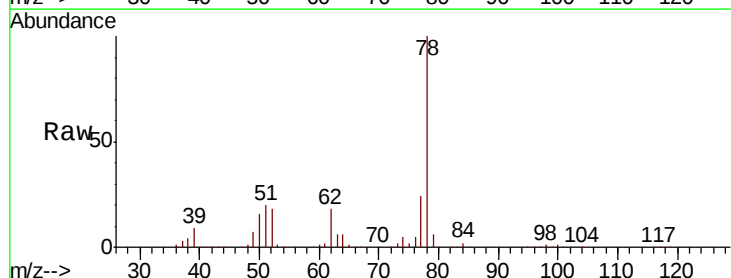
#31
Carbon tetrachloride
Concen: 49.361 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. 0.00 min
Lab File: VU030693.D
Acq: 04 Apr 2019 19:01

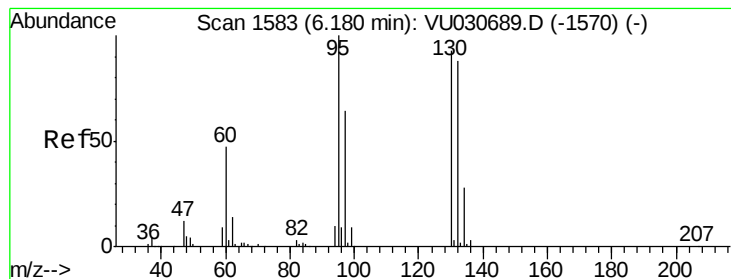
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Tot Ion:117 Resp: 249067
Ion Ratio Lower Upper
117 100
119 96.1 76.2 114.2



#33
Benzene
Concen: 49.856 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU030693.D
Acq: 04 Apr 2019 19:01
Tgt Ion: 78 Resp: 783878





#34

Trichloroethene

Concen: 49.749 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

Tot Ion: 95 Resp: 191847

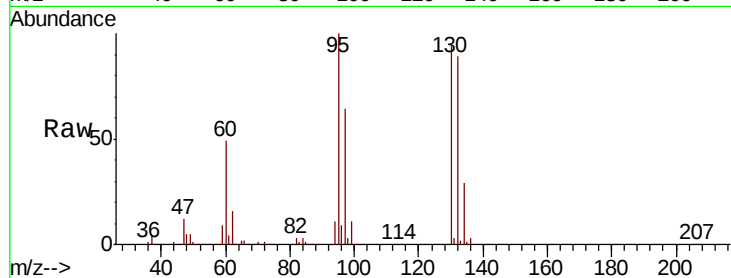
Ion Ratio Lower Upper

95 100

97 64.4 44.5 82.7

132 89.3 61.5 114.1

130 93.8 64.9 120.5

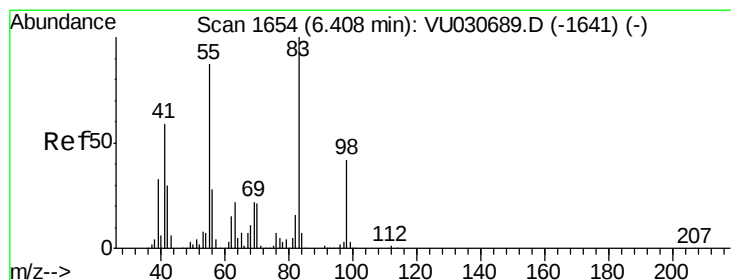
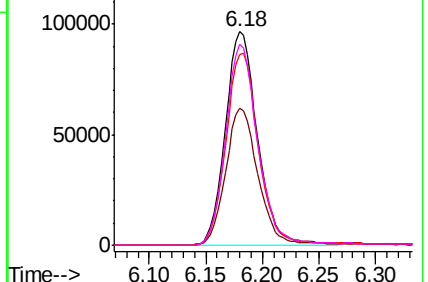
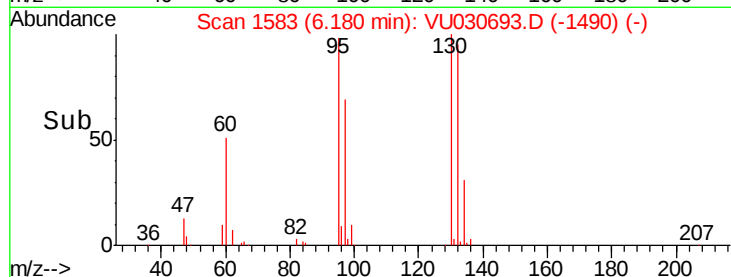


Abundance Ion 95.00 (94.70 to 95.70): VU030693.D (-1570) (-)

Ion 97.00 (96.70 to 97.70): VU030693.D (-1570) (-)

Ion 132.00 (131.70 to 132.70): VU030693.D (-1570) (-)

Ion 130.00 (129.70 to 130.70): VU030693.D (-1570) (-)



#35

Methylcyclohexane

Concen: 52.673 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

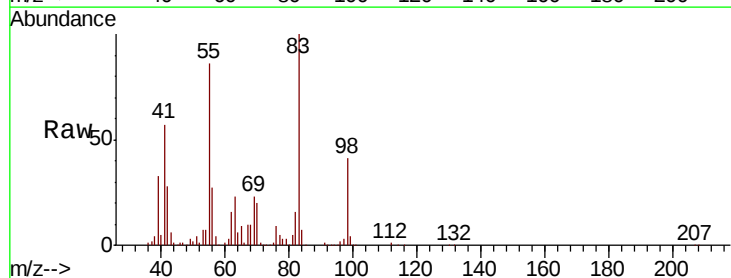
Tgt Ion: 83 Resp: 313475

Ion Ratio Lower Upper

83 100

55 87.5 71.6 107.4

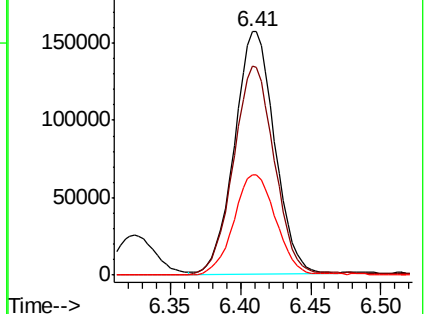
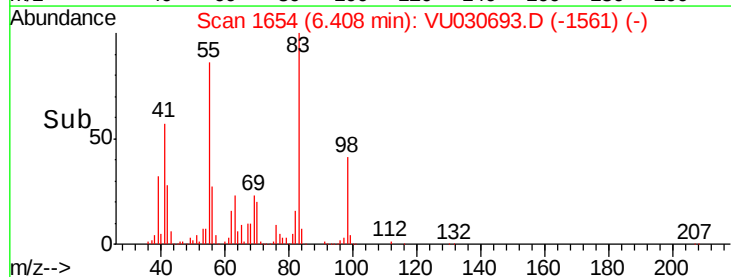
98 43.3 35.4 53.0

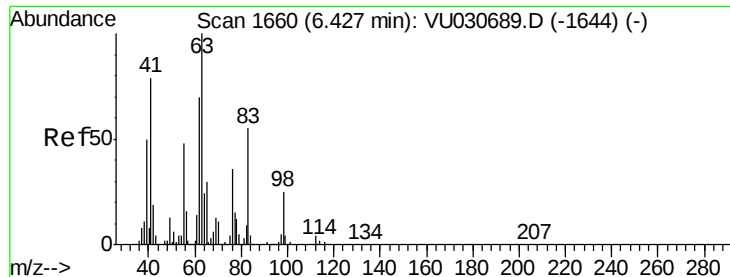


Abundance Ion 83.00 (82.70 to 83.70): VU030693.D (-1641) (-)

Ion 55.00 (54.70 to 55.70): VU030693.D (-1641) (-)

Ion 98.00 (97.70 to 98.70): VU030693.D (-1641) (-)

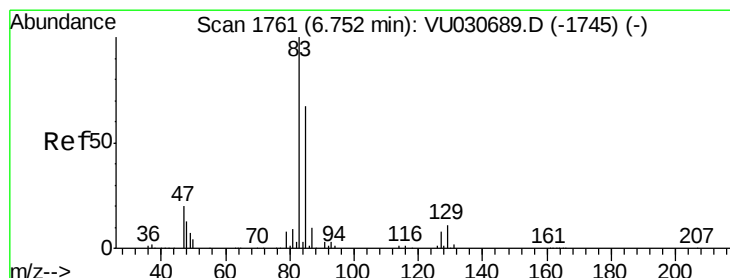
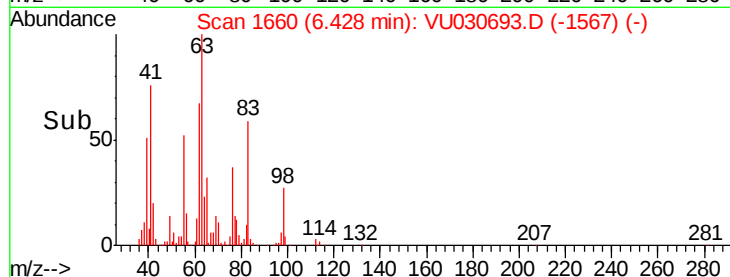
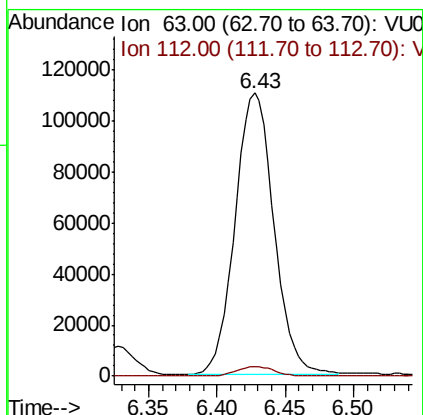
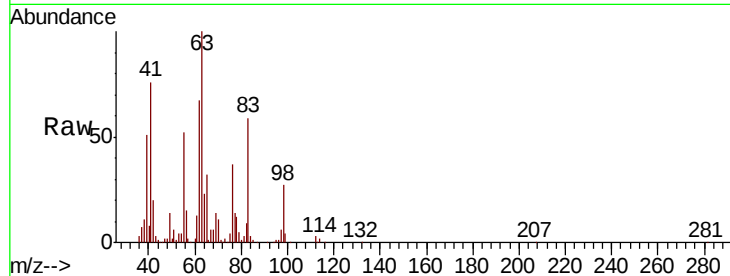




#37
 1,2-Dichloropropane
 Concen: 49.329 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU030693.D
 Acq: 04 Apr 2019 19:01

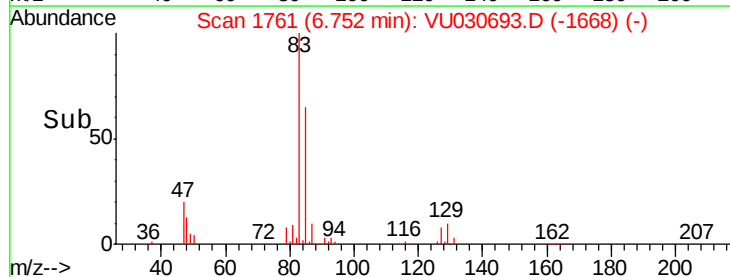
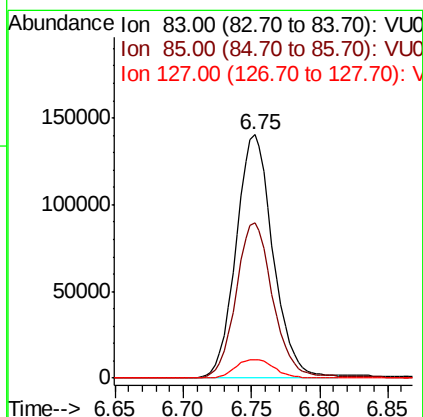
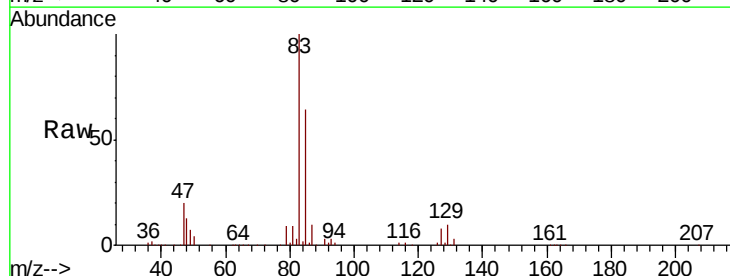
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

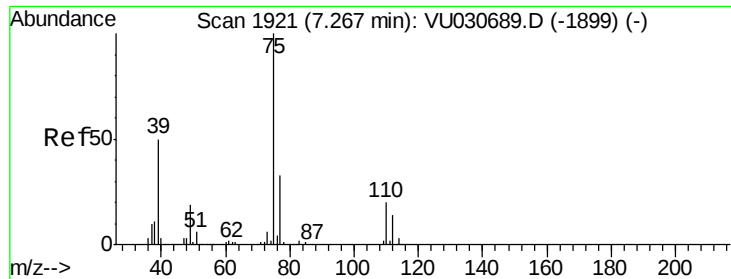
Tot Ion: 63 Resp: 219618
 Ion Ratio Lower Upper
 63 100
 112 3.4 3.0 4.4



#38
 Bromodichloromethane
 Concen: 49.005 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU030693.D
 Acq: 04 Apr 2019 19:01

Tgt Ion: 83 Resp: 263201
 Ion Ratio Lower Upper
 83 100
 85 63.8 46.5 86.3
 127 7.5 6.6 10.0





#39

cis-1,3-Dichloropropene

Concen: 51.881 ug/L

RT: 7.26 min Scan# 1920

Delta R.T. -0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

Instrument :

MSVOA_U

ClientSampleId :

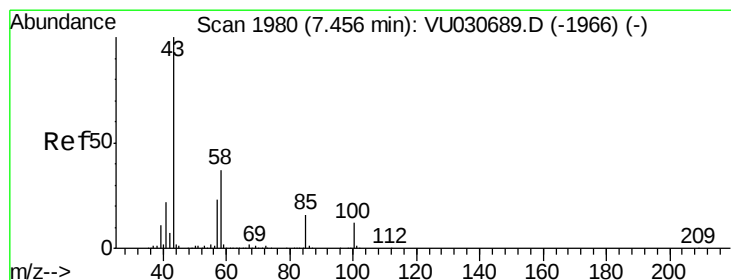
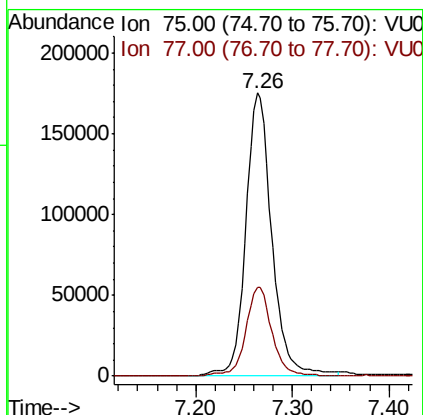
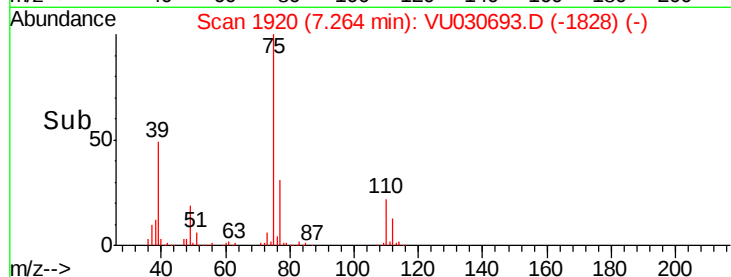
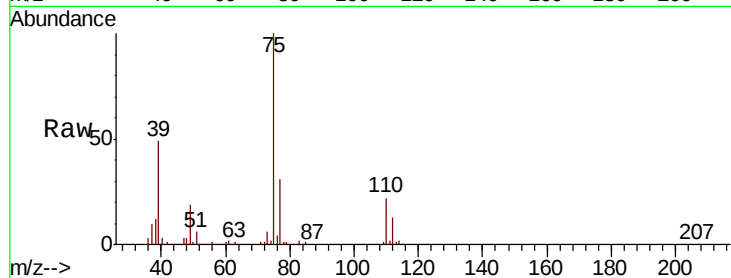
VSTD05048

Tot Ion: 75 Resp: 328768

Ion Ratio Lower Upper

75 100

77 31.4 23.1 42.9



#40

4-Methyl-2-pentanone

Concen: 101.332 ug/L

RT: 7.45 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

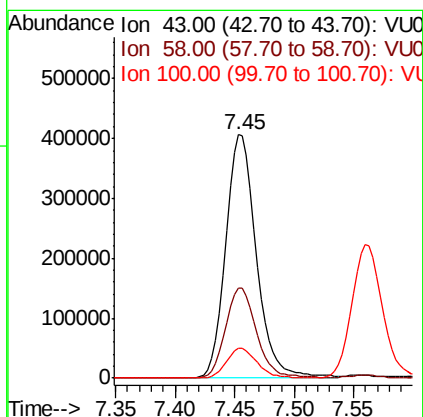
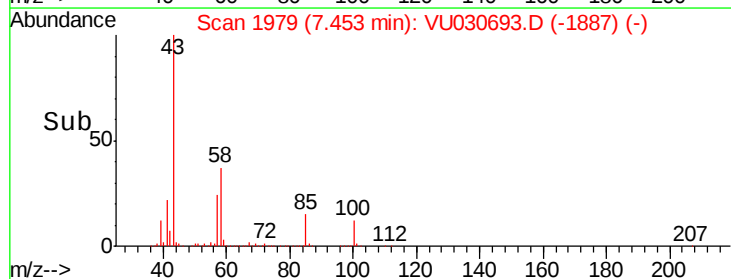
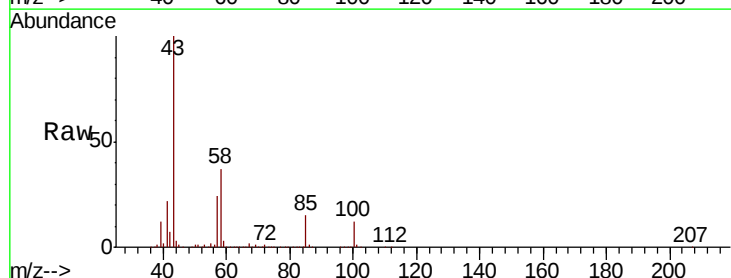
Tgt Ion: 43 Resp: 725477

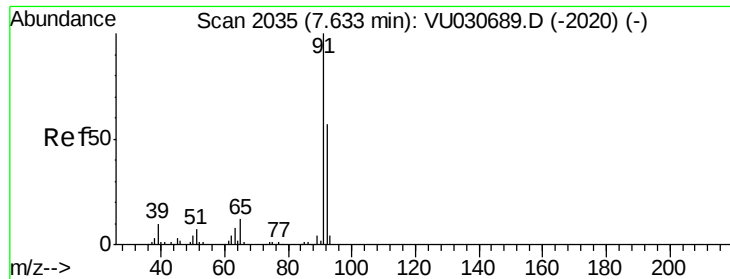
Ion Ratio Lower Upper

43 100

58 37.5 29.7 44.5

100 12.3 9.8 14.6





#42

Toluene

Concen: 51.018 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

Instrument :

MSVOA_U

ClientSampleId :

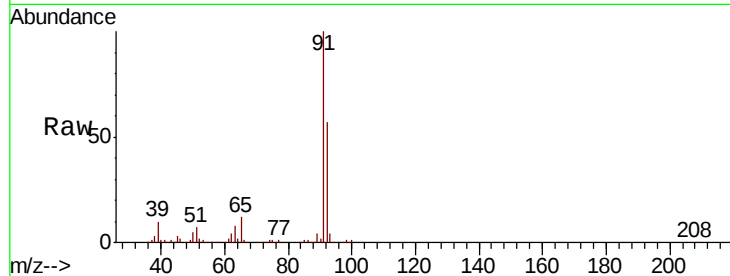
VSTD05048

Tot Ion: 91 Resp: 818809

Ion Ratio Lower Upper

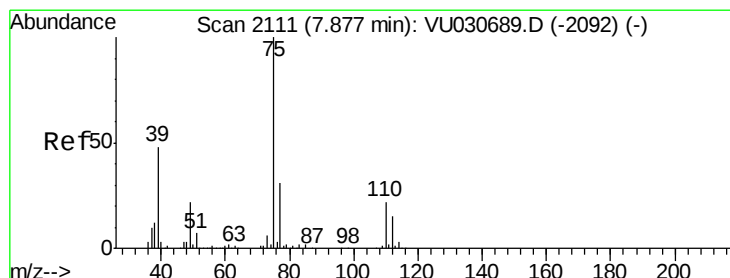
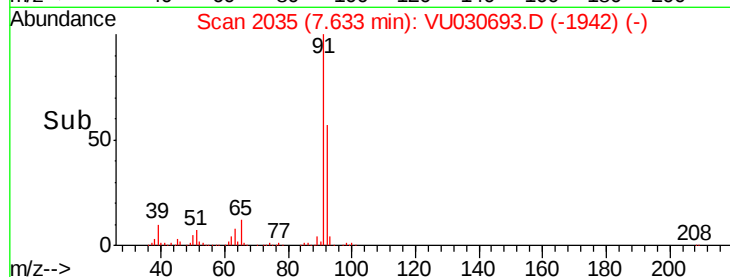
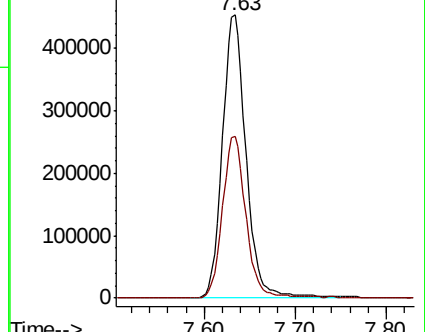
91 100

92 57.3 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VU030693.D (-1942) (-)

Ion 92.00 (91.70 to 92.70): VU030693.D (-1942) (-)



#44

trans-1,3-Dichloropropene

Concen: 52.595 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU030693.D

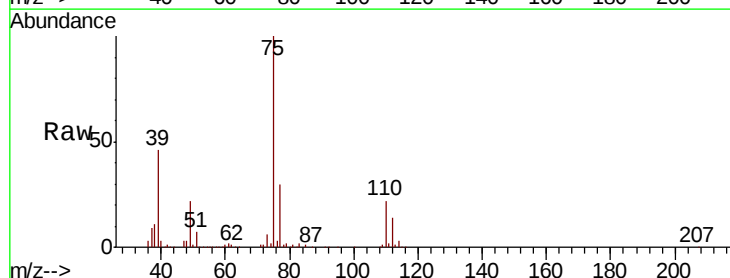
Acq: 04 Apr 2019 19:01

Tgt Ion: 75 Resp: 293719

Ion Ratio Lower Upper

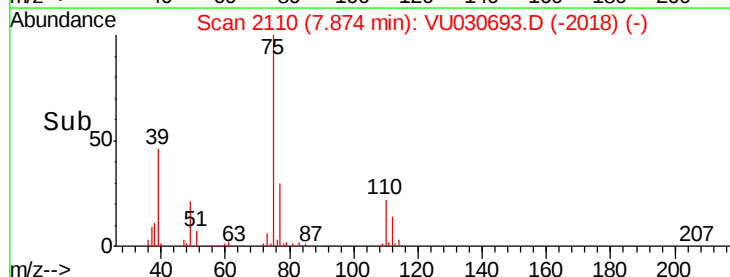
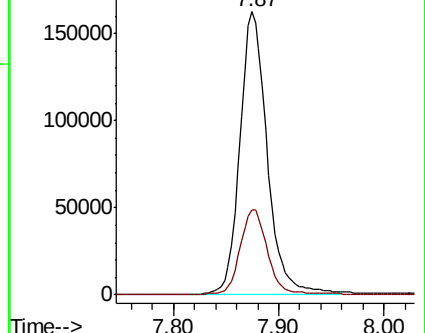
75 100

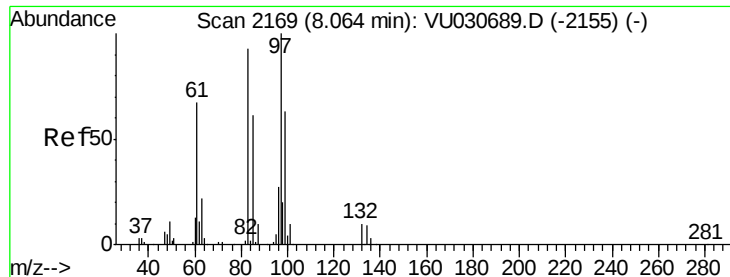
77 30.2 21.6 40.0



Abundance Ion 75.00 (74.70 to 75.70): VU030693.D (-2018) (-)

Ion 77.00 (76.70 to 77.70): VU030693.D (-2018) (-)

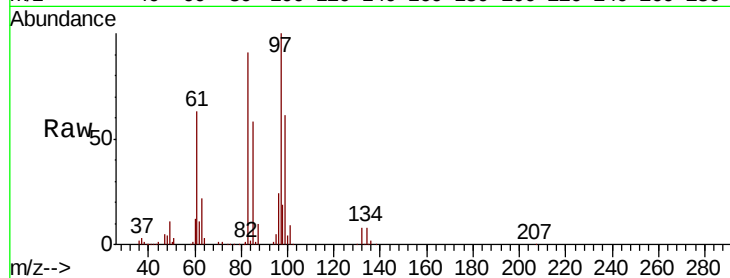




#45
 1,1,2-Trichloroethane
 Concen: 49.471 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. -0.00 min
 Lab File: VU030693.D
 Acq: 04 Apr 2019 19:01

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Tot Ion:	97	Resp:	186796
Ion	Ratio	Lower	Upper
97	100		
99	61.0	44.0	81.8
83	90.9	65.3	121.3
85	57.7	42.5	78.9

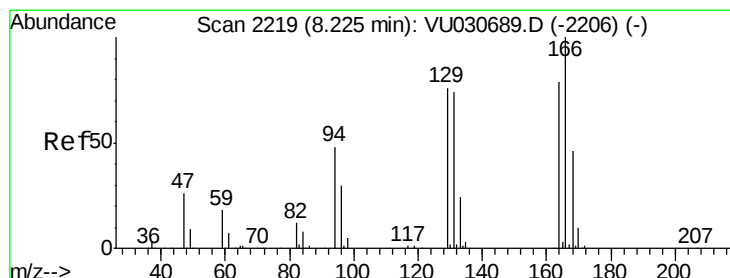
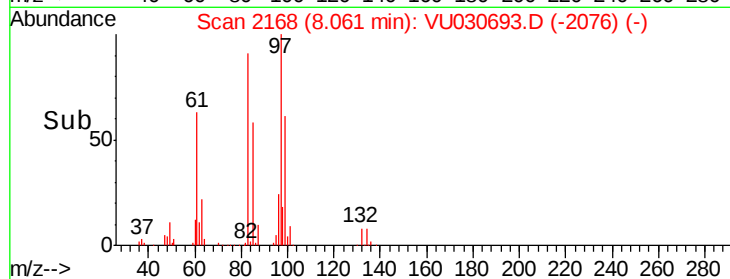
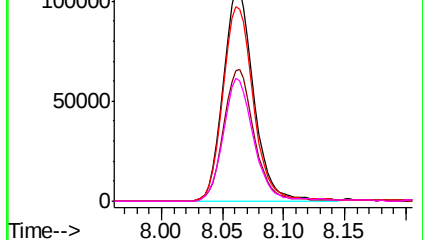


Abundance Ion 97.00 (96.70 to 97.70): VU030689.D (-2155) (-)

Ion 99.00 (98.70 to 99.70): VU030689.D (-2155) (-)

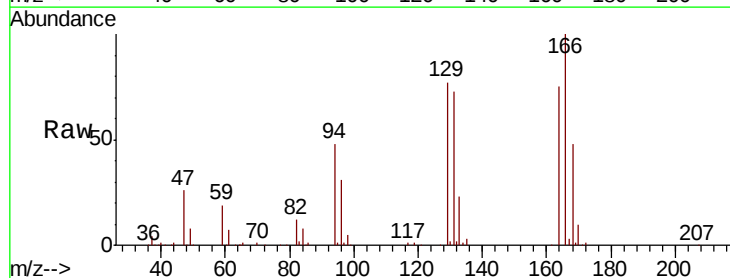
Ion 83.00 (82.70 to 83.70): VU030689.D (-2155) (-)

Ion 85.00 (84.70 to 85.70): VU030689.D (-2155) (-)



#46
 Tetrachloroethene
 Concen: 48.910 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU030693.D
 Acq: 04 Apr 2019 19:01

Tgt Ion:	164	Resp:	137127
Ion	Ratio	Lower	Upper
164	100		
129	102.1	67.4	125.2
131	96.4	65.9	122.5
166	133.0	88.6	164.6

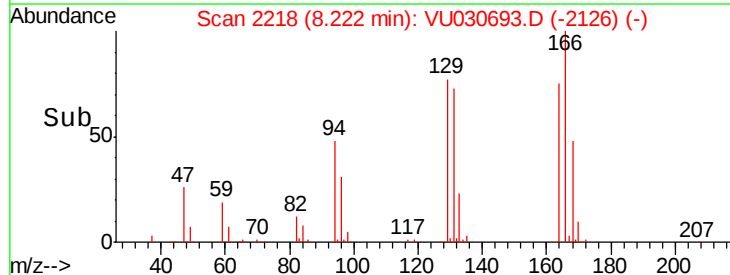
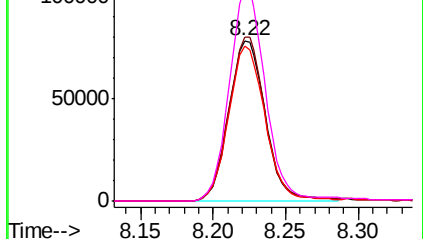


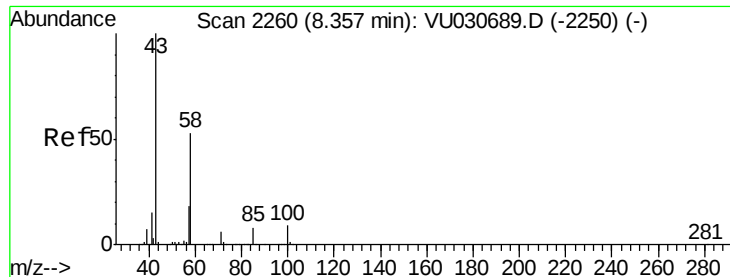
Abundance Ion 164.00 (163.70 to 164.70): VU030689.D (-2206) (-)

Ion 129.00 (128.70 to 129.70): VU030689.D (-2206) (-)

Ion 131.00 (130.70 to 131.70): VU030689.D (-2206) (-)

Ion 166.00 (165.70 to 166.70): VU030689.D (-2206) (-)

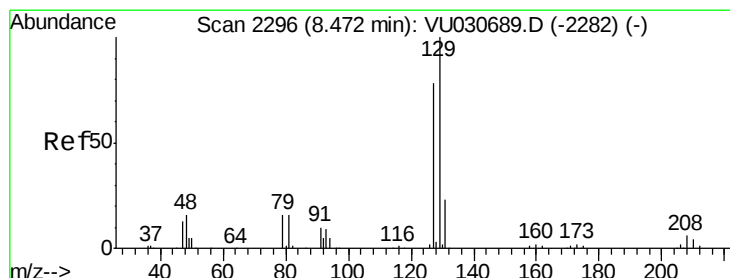
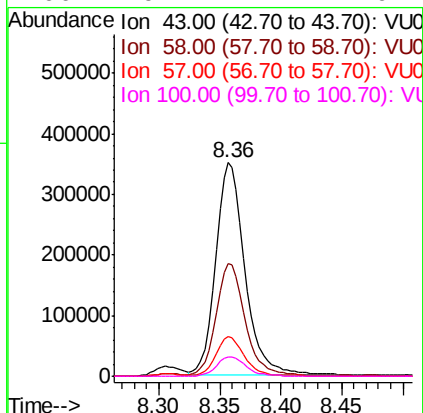
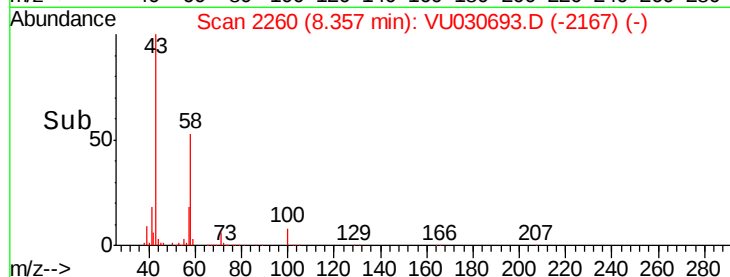
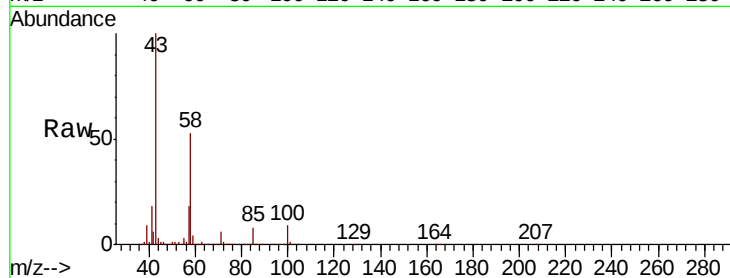




#48
2-Hexanone
Concen: 104.718 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU030693.D
Acq: 04 Apr 2019 19:01

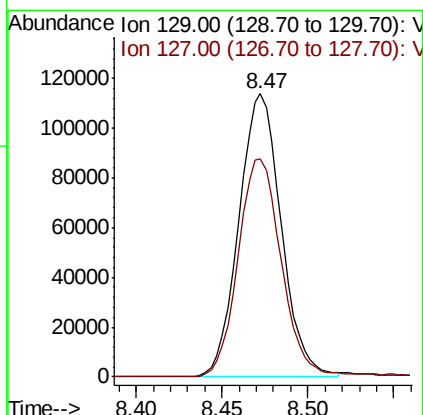
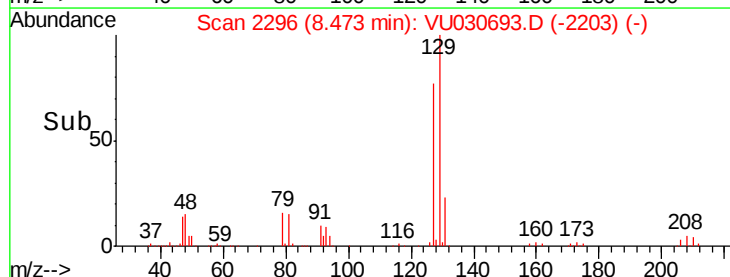
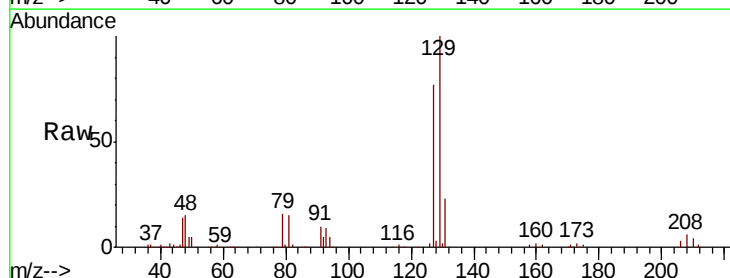
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

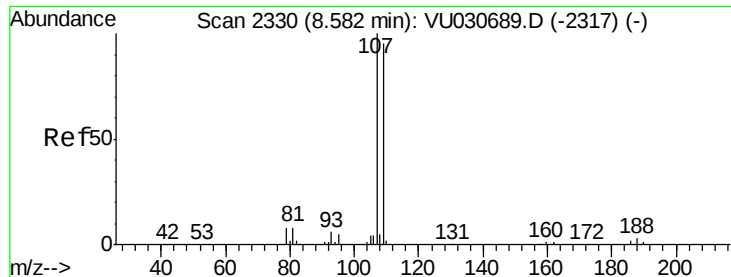
Tot Ion: 43 Resp: 584918
Ion Ratio Lower Upper
43 100
58 52.9 41.9 62.9
57 18.0 14.3 21.5
100 9.4 7.1 10.7



#49
Dibromochloromethane
Concen: 48.618 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU030693.D
Acq: 04 Apr 2019 19:01

Tgt Ion: 129 Resp: 194792
Ion Ratio Lower Upper
129 100
127 77.2 54.5 101.3

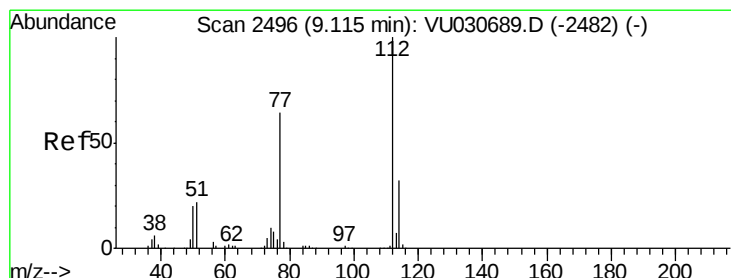
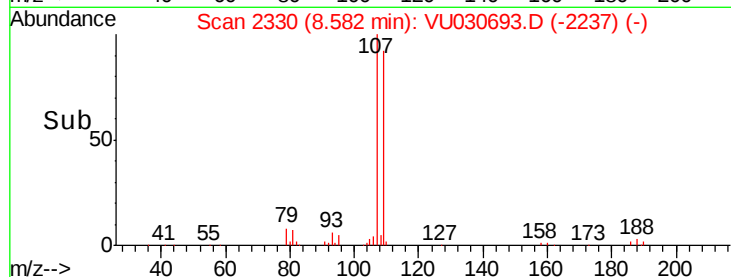
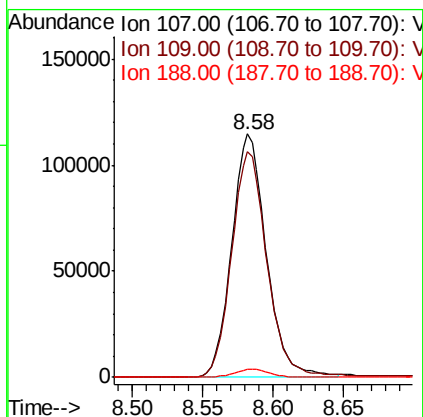
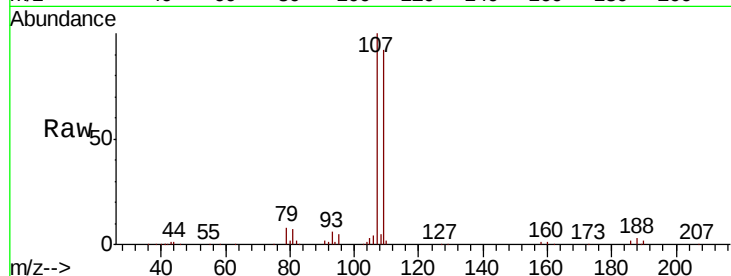




#50
 1,2-Dibromoethane
 Concen: 48.364 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. 0.00 min
 Lab File: VU030693.D
 Acq: 04 Apr 2019 19:01

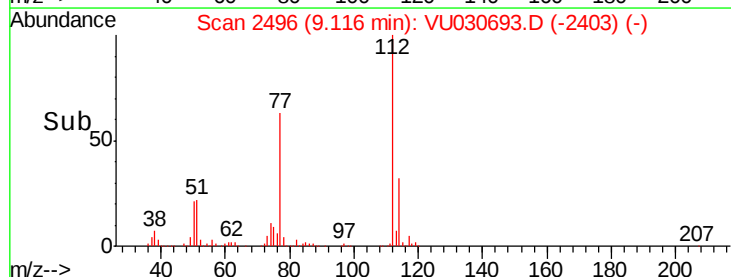
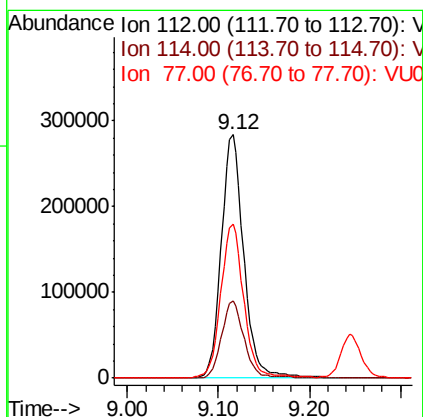
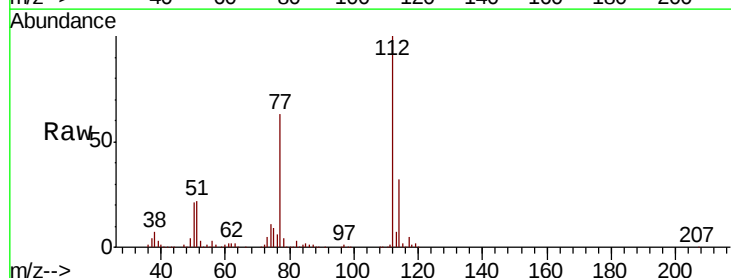
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

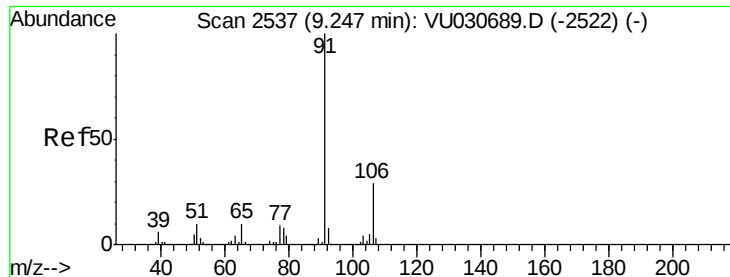
Tot Ion	Ratio	Lower	Upper
107	100		
109	92.4	66.4	123.2
188	3.2	2.6	4.0



#51
 Chlorobenzene
 Concen: 49.560 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. 0.00 min
 Lab File: VU030693.D
 Acq: 04 Apr 2019 19:01

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.6	22.2	41.2
77	63.4	51.7	77.5





#52

Ethylbenzene

Concen: 51.245 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

Instrument :

MSVOA_U

ClientSampleId :

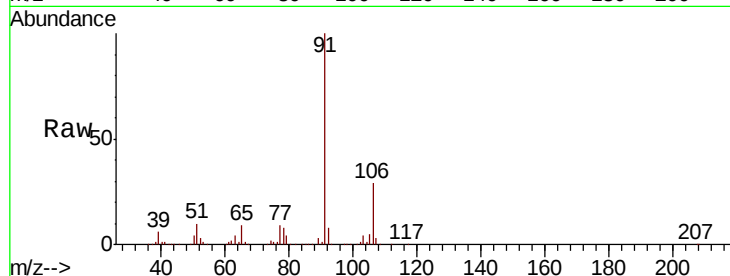
VSTD05048

Tot Ion: 91 Resp: 896491

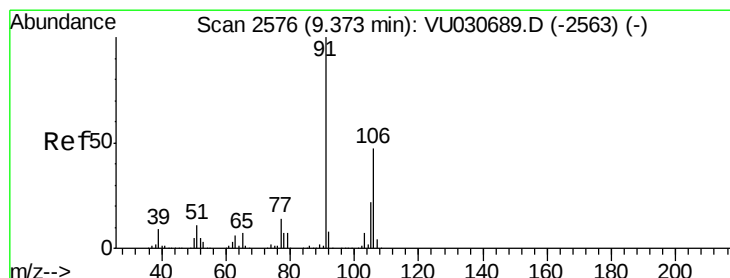
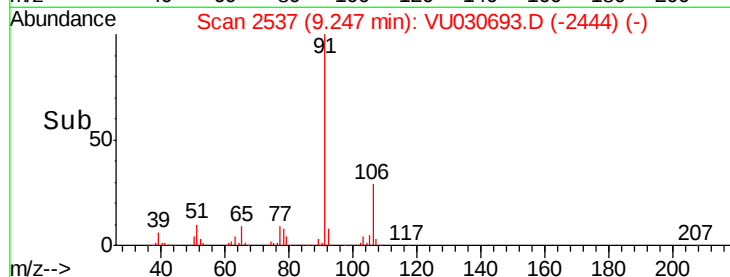
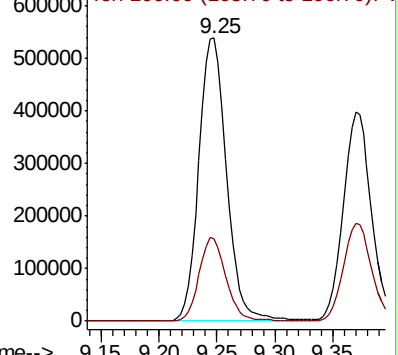
Ion Ratio Lower Upper

91 100

106 29.1 20.4 37.8



Abundance Ion 91.00 (90.70 to 91.70): VU030689.D (-2522) (-)



#53

m,p-Xylene

Concen: 51.648 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU030693.D

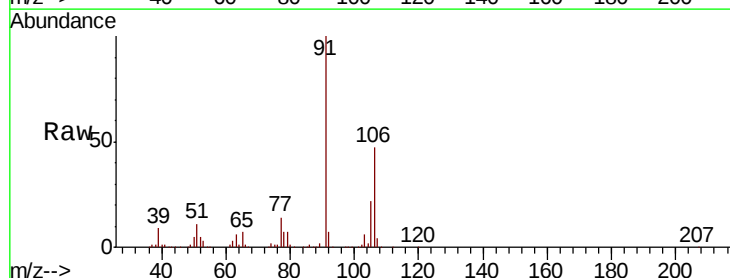
Acq: 04 Apr 2019 19:01

Tgt Ion: 106 Resp: 315127

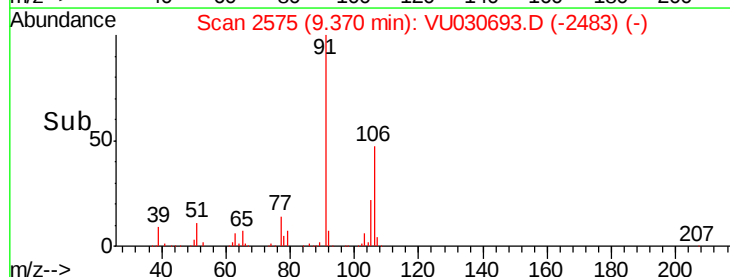
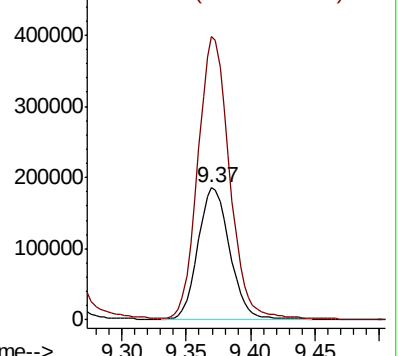
Ion Ratio Lower Upper

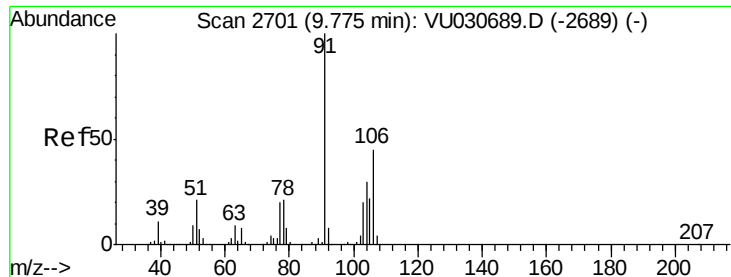
106 100

91 214.5 148.0 274.8



Abundance Ion 106.00 (105.70 to 106.70): VU030689.D (-2563) (-)





#54

o-xylene

Concen: 50.522 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

Instrument :

MSVOA_U

ClientSampleId :

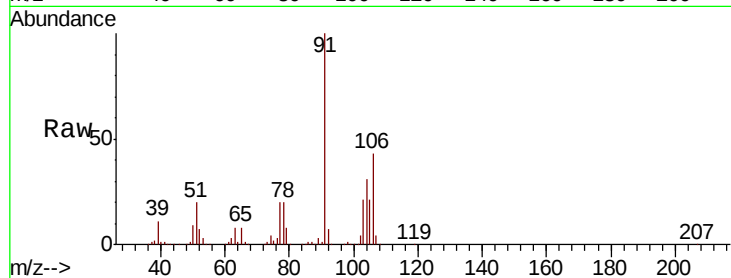
VSTD05048

Tot Ion:106 Resp: 306616

Ion Ratio Lower Upper

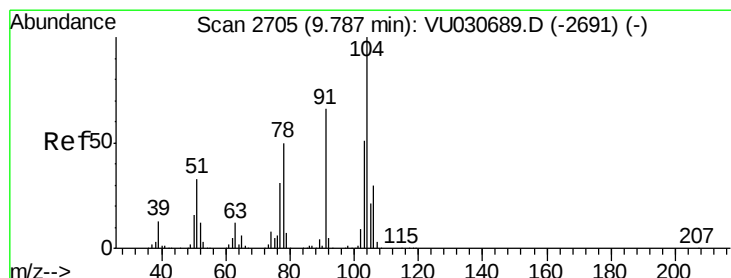
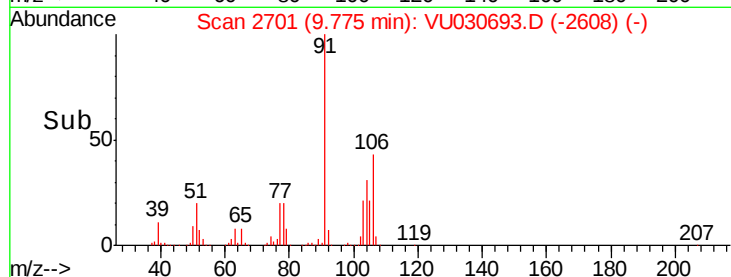
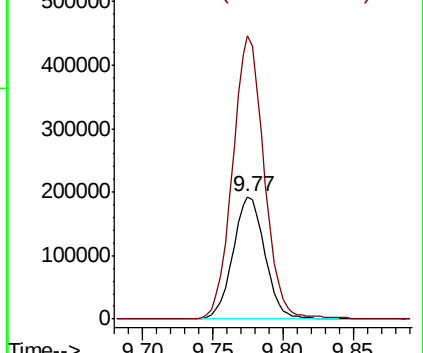
106 100

91 230.9 156.7 290.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 51.977 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU030693.D

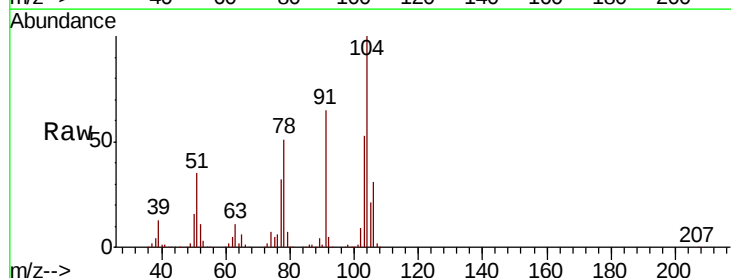
Acq: 04 Apr 2019 19:01

Tgt Ion:104 Resp: 541076

Ion Ratio Lower Upper

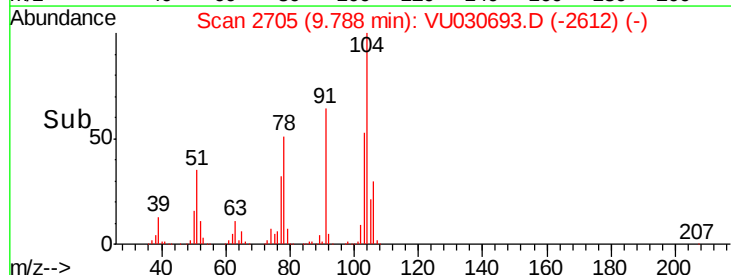
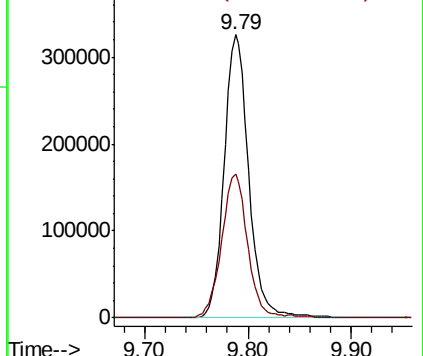
104 100

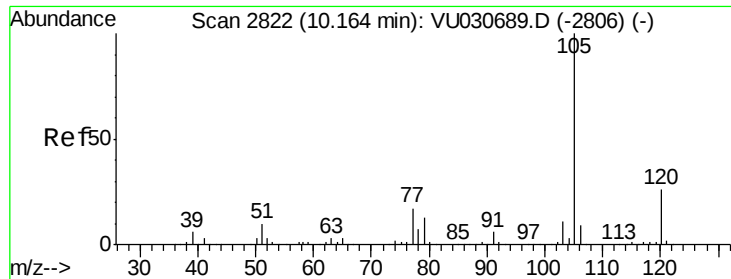
78 50.9 35.1 65.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 51.544 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

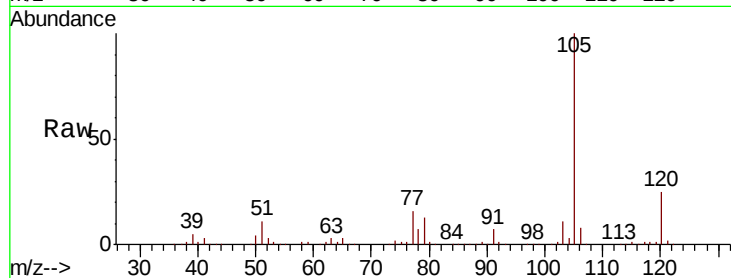
Tot Ion:105 Resp: 823607

Ion Ratio Lower Upper

105 100

120 25.1 20.4 30.6

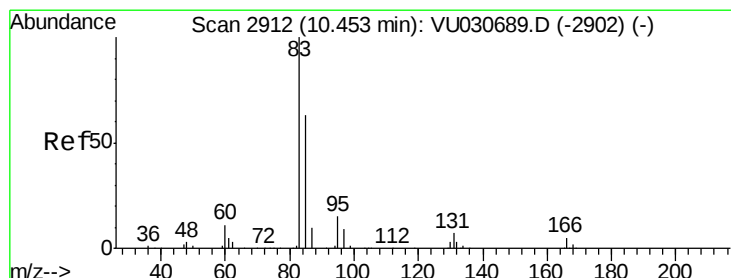
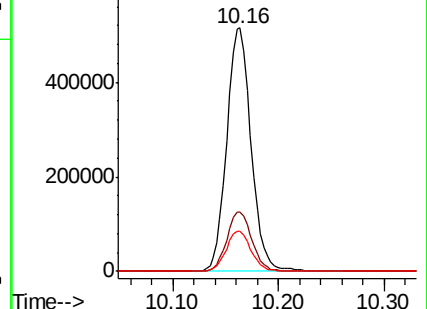
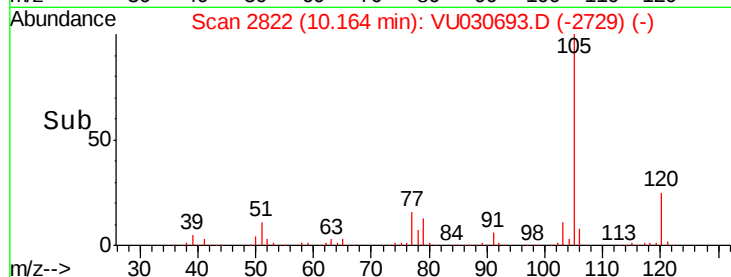
77 16.9 13.4 20.2



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: 48.457 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

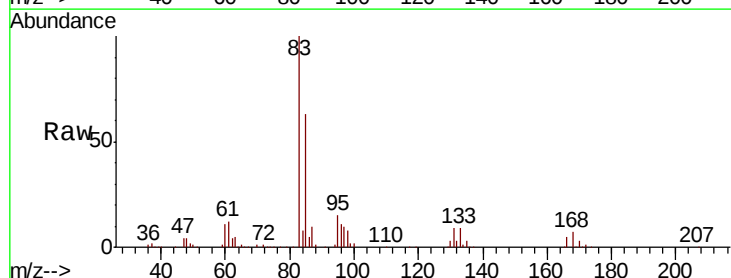
Tgt Ion: 83 Resp: 330946

Ion Ratio Lower Upper

83 100

85 63.4 45.3 84.1

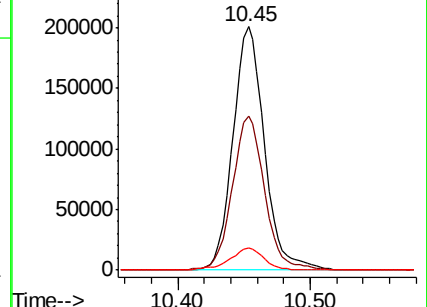
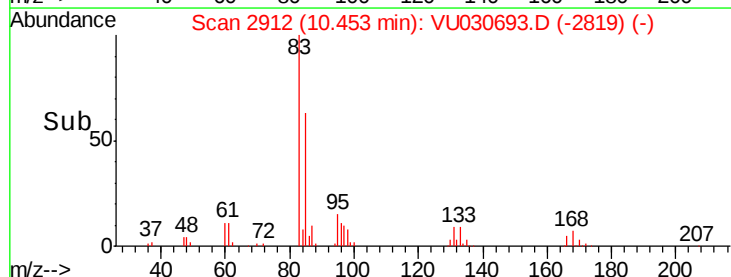
131 9.0 6.7 10.1

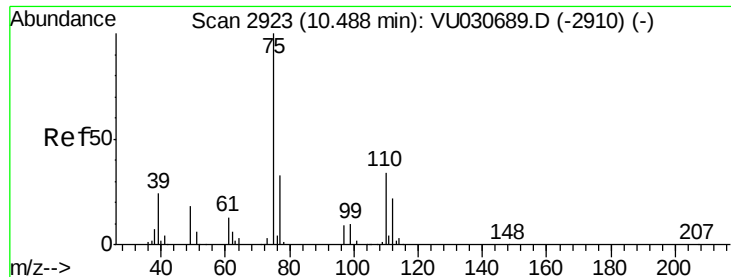


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

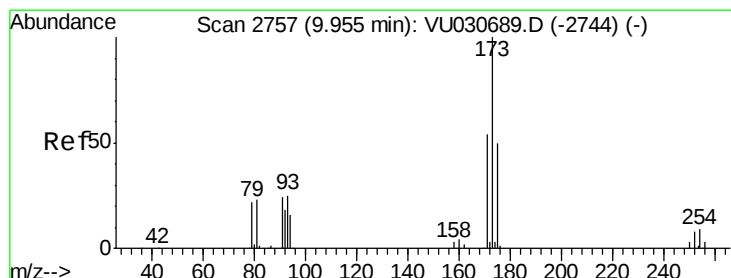
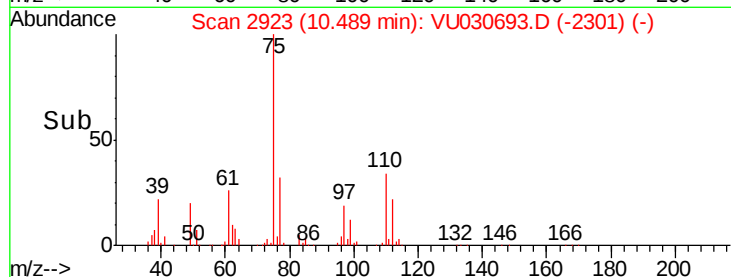
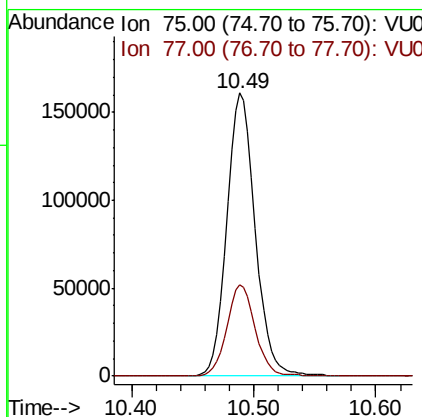
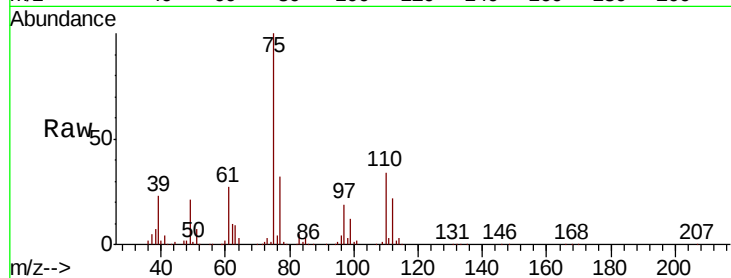




#59
 1,2,3-Trichloropropane
 Concen: 49.172 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU030693.D
 Acq: 04 Apr 2019 19:01

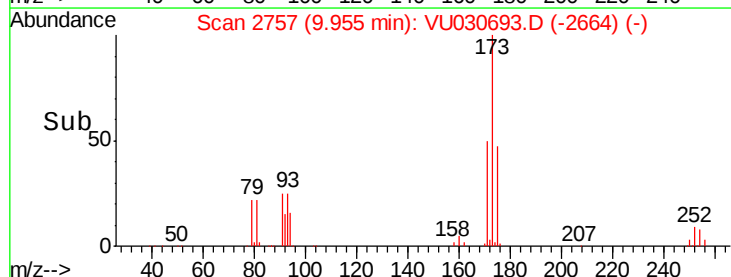
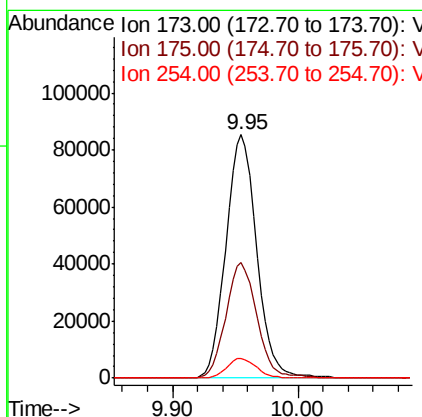
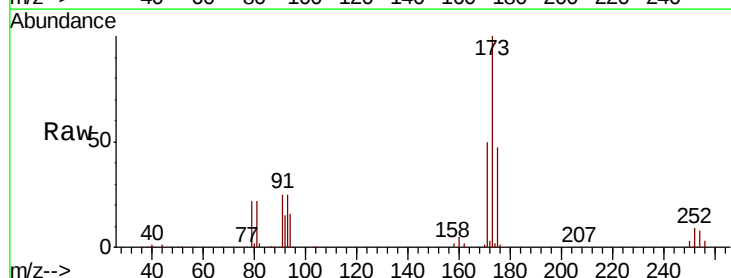
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

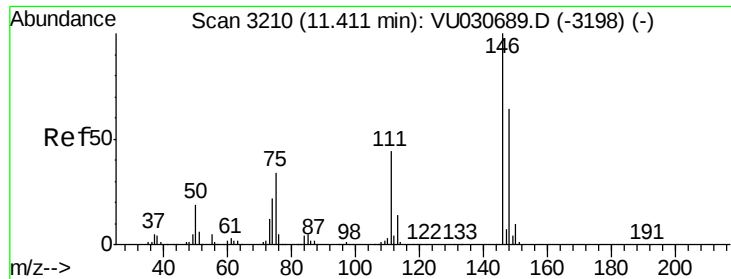
Tot Ion: 75 Resp: 262191
 Ion Ratio Lower Upper
 75 100
 77 31.9 26.1 39.1



#61
 Bromoform
 Concen: 49.641 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU030693.D
 Acq: 04 Apr 2019 19:01

Tgt Ion: 173 Resp: 145347
 Ion Ratio Lower Upper
 173 100
 175 47.5 39.1 58.7
 254 7.8 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 50.110 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

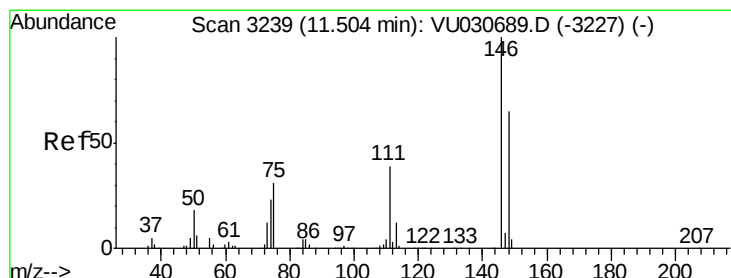
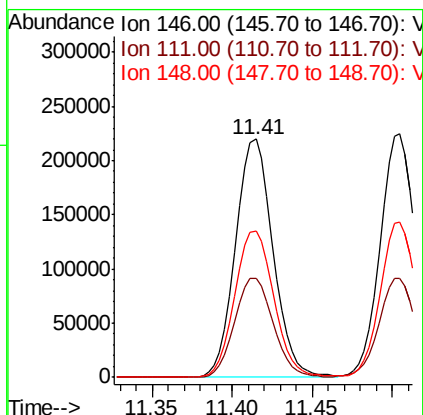
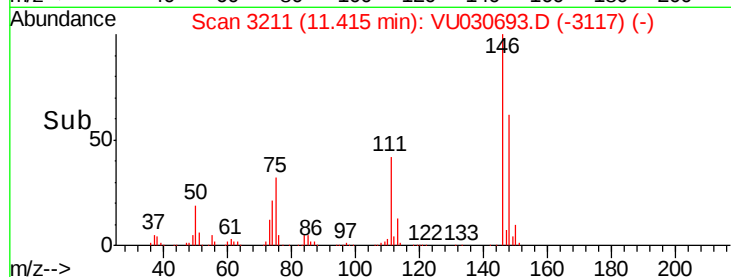
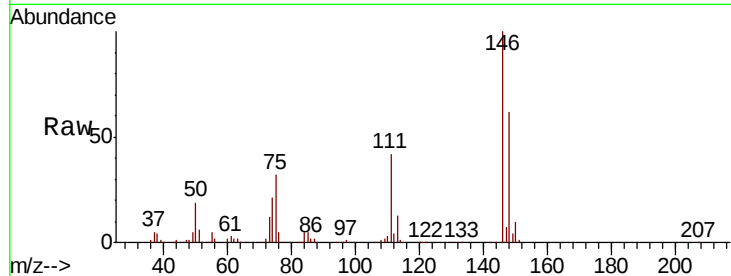
Tot Ion:146 Resp: 351023

Ion Ratio Lower Upper

146 100

111 41.6 30.9 57.5

148 61.6 44.7 82.9



#63

1,4-Dichlorobenzene

Concen: 49.892 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

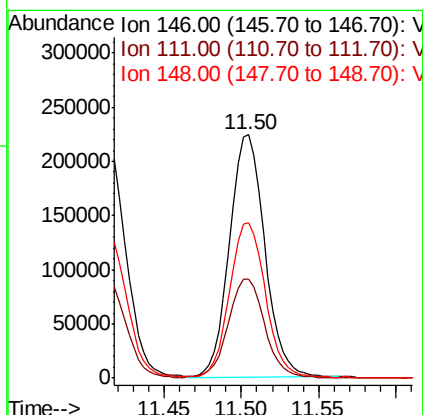
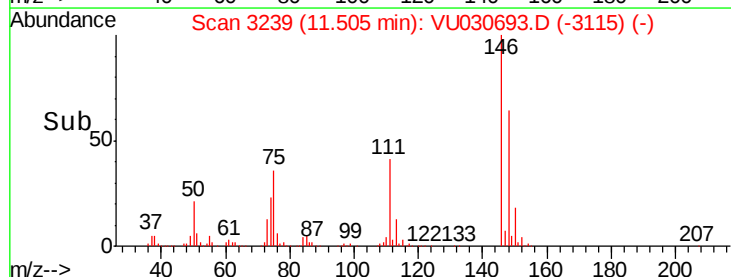
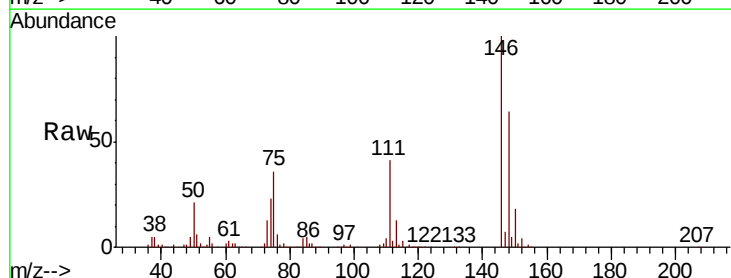
Tgt Ion:146 Resp: 355500

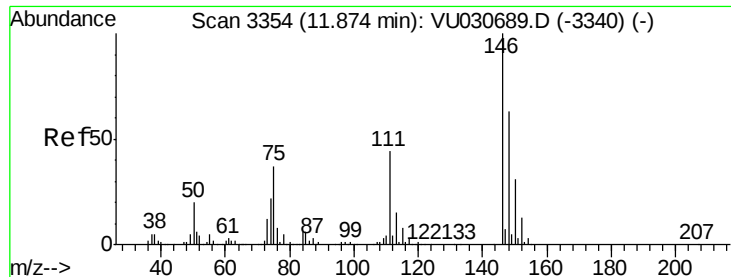
Ion Ratio Lower Upper

146 100

111 40.6 27.7 51.5

148 63.8 45.4 84.4





#65

1,2-Dichlorobenzene

Concen: 49.065 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

Instrument :

MSVOA_U

ClientSampled :

VSTD05048

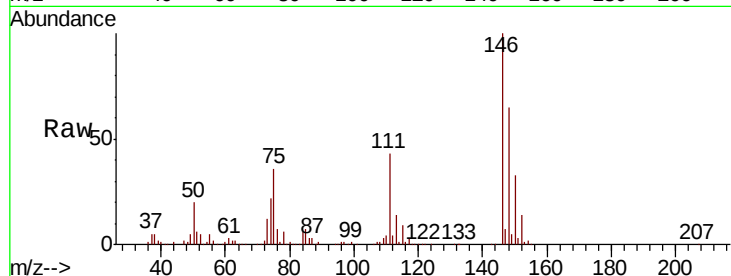
Tot Ion:146 Resp: 344760

Ion Ratio Lower Upper

146 100

111 43.4 34.9 52.3

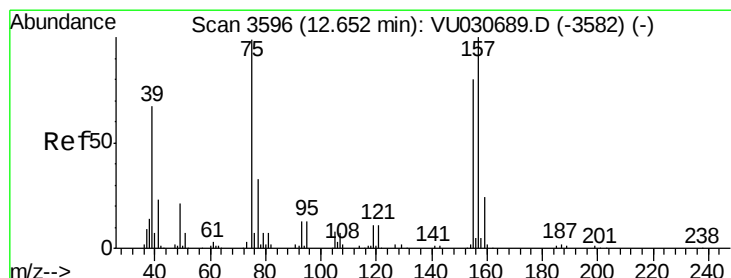
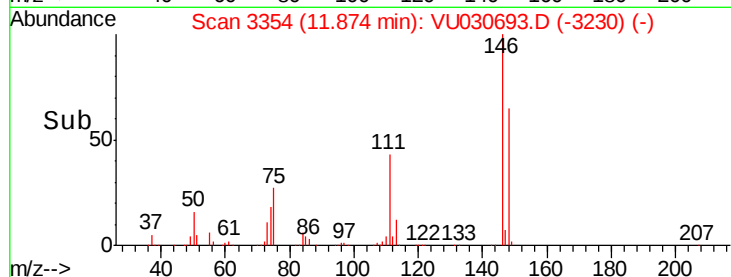
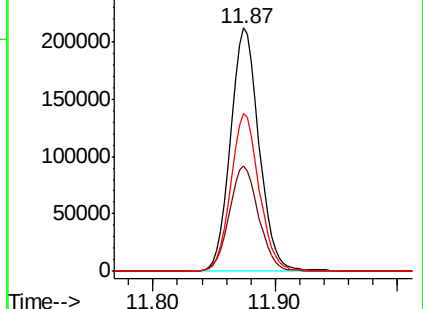
148 64.7 50.4 75.6



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



#66

1,2-Dibromo-3-chloropropane

Concen: 49.874 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. 0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

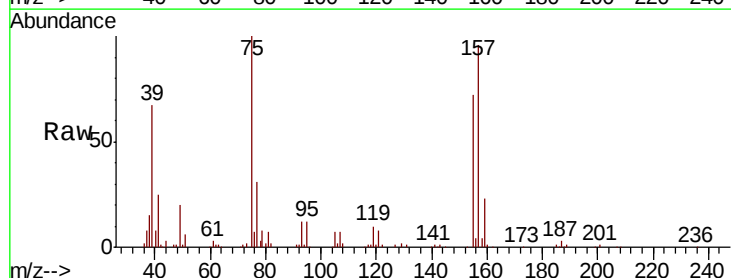
Tgt Ion: 75 Resp: 74499

Ion Ratio Lower Upper

75 100

155 72.0 64.1 96.1

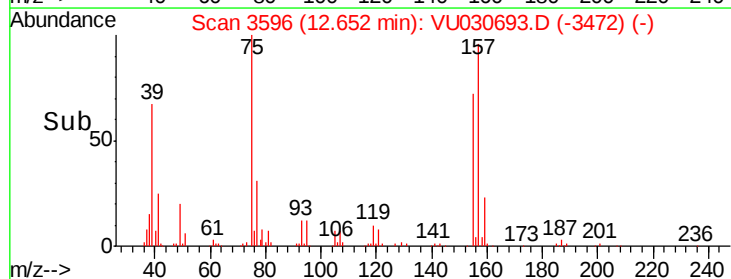
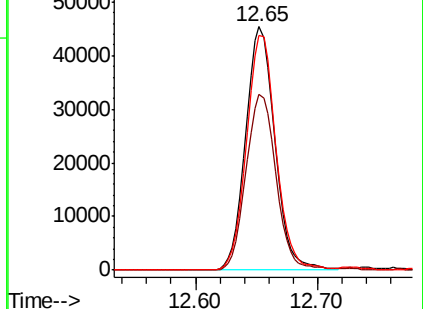
157 96.2 80.6 120.8

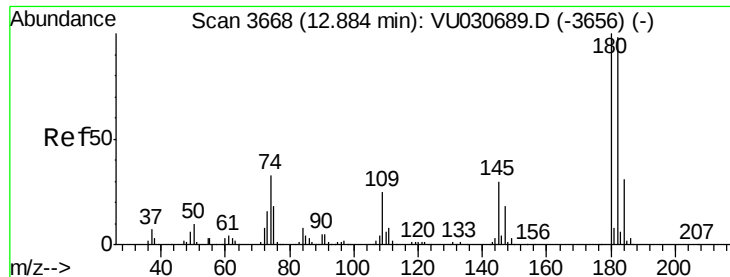


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

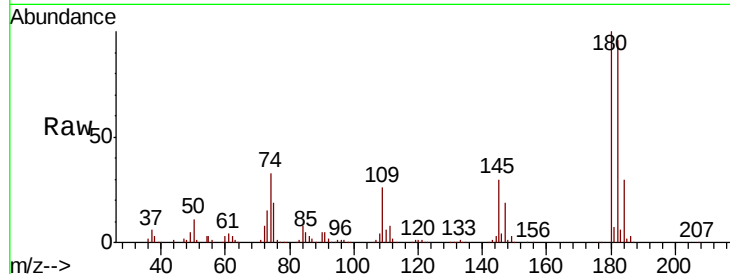




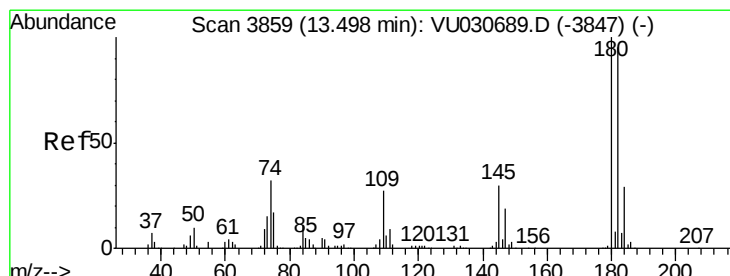
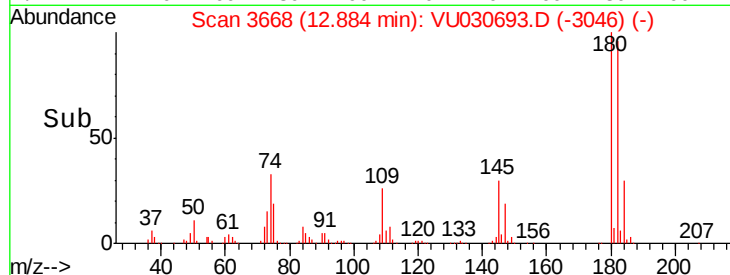
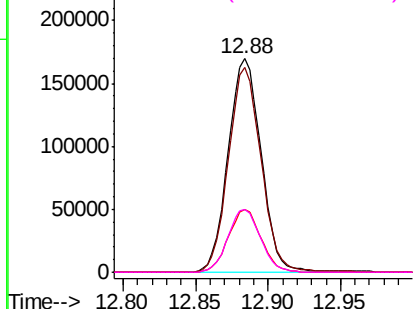
#67
 1,3,5-Trichlorobenzene
 Concen: 52.359 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU030693.D
 Acq: 04 Apr 2019 19:01

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Tot Ion:180	Resp:	268042
Ion Ratio	Lower	Upper
180	100	
182	95.3	78.3 117.5
184	29.1	24.7 37.1
145	29.1	24.2 36.4

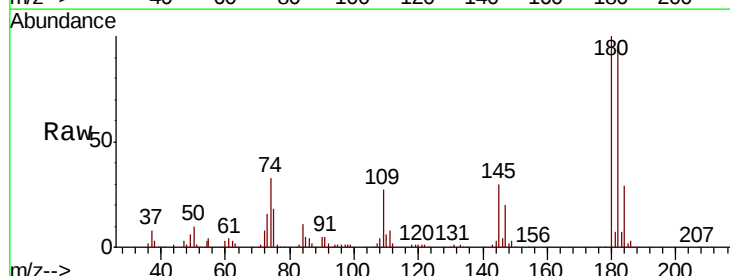


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

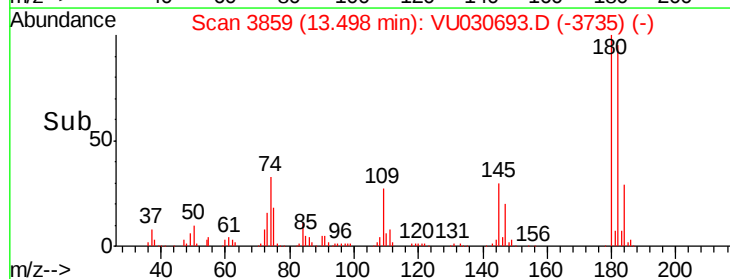
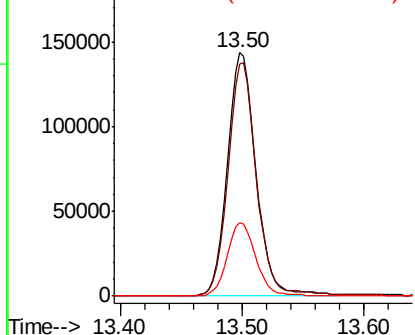


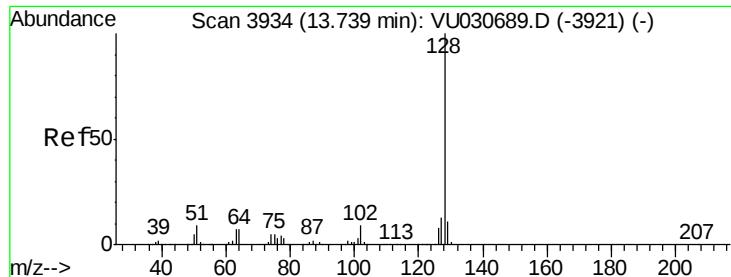
#68
 1,2,4-trichlorobenzene
 Concen: 54.288 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU030693.D
 Acq: 04 Apr 2019 19:01

Tgt Ion:180	Resp:	236296
Ion Ratio	Lower	Upper
180	100	
182	95.5	76.7 115.1
145	30.4	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





#69

Naphthalene

Concen: 56.736 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

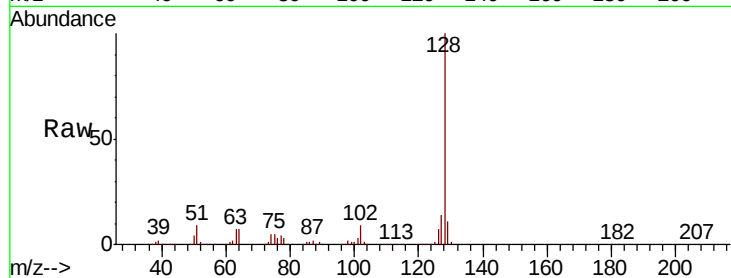
Tot Ion:128 Resp: 800563

Ion Ratio Lower Upper

128 100

127 13.3 10.4 15.6

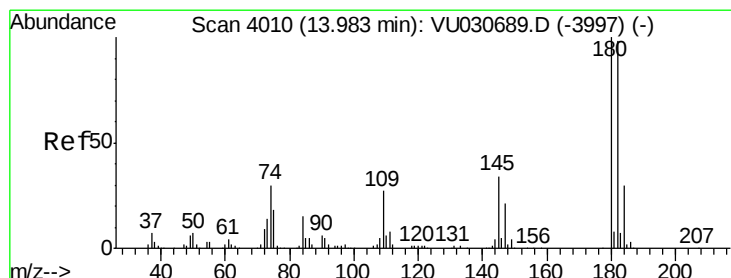
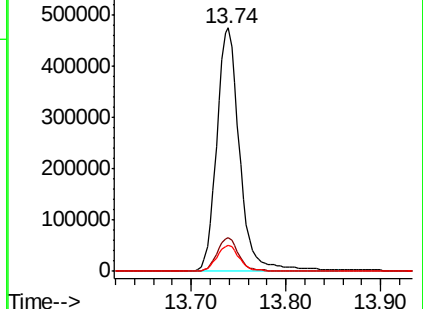
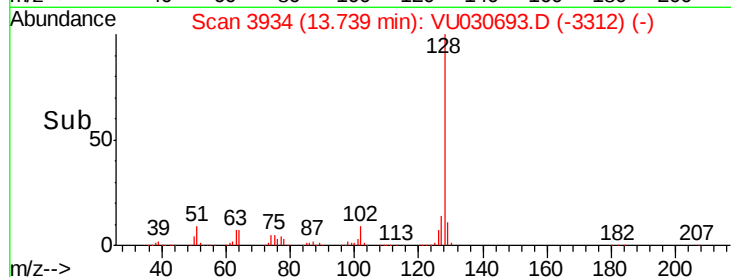
129 10.8 8.6 12.8



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: 53.371 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU030693.D

Acq: 04 Apr 2019 19:01

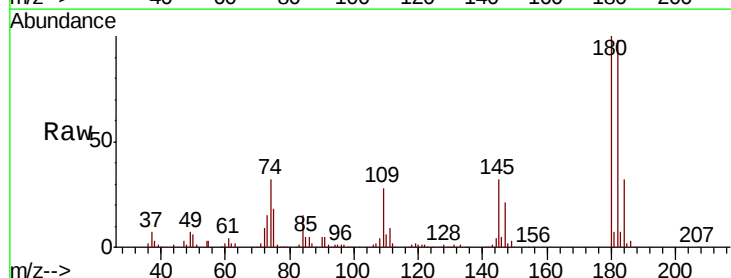
Tgt Ion:180 Resp: 242717

Ion Ratio Lower Upper

180 100

182 96.1 78.1 117.1

145 31.7 26.6 40.0



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

