

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU041719\
 Data File : VU031213.D
 Acq On : 16 Apr 2019 16:08
 Operator : JC/SP
 Sample : VSTD00547
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00547

Quant Time: Apr 17 02:38:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Apr 17 02:35:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	515296	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	478262	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	209927	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	24622	5.38	ug/L	0.00
7) Chloroethane-d5	1.68	69	20968	5.79	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	51312	6.09	ug/L	0.00
21) 2-Butanone-d5	4.21	46	11234	3.10	ug/L	0.02
24) Chloroform-d	4.64	84	40532	5.61	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	25051	5.19	ug/L	0.00
32) Benzene-d6	5.34	84	76689	5.40	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	24520	5.12	ug/L	0.00
41) Toluene-d8	7.57	98	60882	4.86	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	11140	5.06	ug/L	0.00
47) 2-Hexanone-d5	8.33	63	19886	9.08	ug/L	0.02
57) 1,1,2,2-Tetrachloroethane-	10.43	84	36600	5.67	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	25611	6.09	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	27023	5.935 ug/L	99
3) Chloromethane	1.32	50	33602	5.821 ug/L	99
5) Vinyl chloride	1.40	62	32249	5.788 ug/L	99
6) Bromomethane	1.63	94	21276	6.962 ug/L	97
8) Chloroethane	1.70	64	20303	6.165 ug/L	100
9) Trichlorofluoromethane	1.87	101	46184	6.809 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	23070	6.161 ug/L	95
12) 1,1-Dichloroethene	2.27	96	22610	6.290 ug/L	94
13) Acetone	2.34	43	28774	8.256 ug/L	99
14) Carbon disulfide	2.47	76	60765	5.567 ug/L	99
15) Methyl Acetate	2.62	43	24578	4.473 ug/L	97
16) Methylene chloride	2.69	84	22003	5.212 ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	21444	5.795 ug/L	96
18) Methyl tert-butyl Ether	2.99	73	62334	5.058 ug/L	97
19) 1,1-Dichloroethane	3.44	63	41856	5.501 ug/L	94
20) cis-1,2-Dichloroethene	4.22	96	23174	5.502 ug/L	85
23) Bromochloromethane	4.55	128	11746	5.869 ug/L	94
25) Chloroform	4.67	83	39876	5.092 ug/L	97
27) 1,2-Dichloroethane	5.40	62	30241	5.088 ug/L	96
29) Cyclohexane	4.99	56	35512	5.182 ug/L	97
30) 1,1,1-Trichloroethane	4.91	97	36005	6.080 ug/L #	71
31) Carbon tetrachloride	5.13	117	30255	5.924 ug/L	98
33) Benzene	5.39	78	86496	5.501 ug/L	100
34) Trichloroethene	6.18	95	22921	5.942 ug/L	91
35) Methylcyclohexane	6.41	83	30980	5.257 ug/L	97
37) 1,2-Dichloropropane	6.43	63	23015	5.259 ug/L #	97
38) Bromodichloromethane	6.76	83	30032	5.617 ug/L	95
39) cis-1,3-Dichloropropene	7.27	75	32243	5.162 ug/L	98
40) 4-Methyl-2-pentanone	7.47	43	59043	8.599 ug/L #	95
42) Toluene	7.64	91	80954	5.097 ug/L	99

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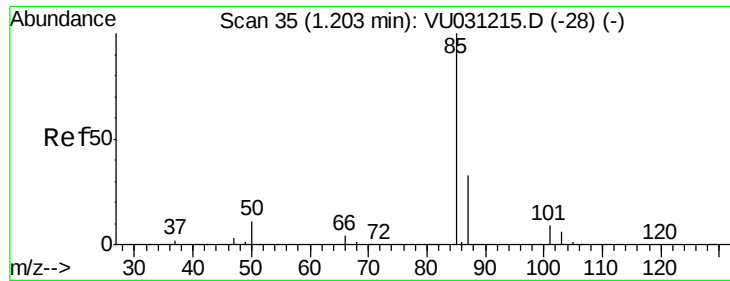
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00547

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) trans-1,3-Dichloropropene	7.88	75	27655	5.007	ug/L	95
45) 1,1,2-Trichloroethane	8.07	97	20507	5.433	ug/L	97
46) Tetrachloroethene	8.22	164	16092	5.674	ug/L	97
48) 2-Hexanone	8.38	43	47509	8.904	ug/L	95
49) Dibromochloromethane	8.48	129	21620	5.389	ug/L	99
50) 1,2-Dibromoethane	8.59	107	20562	5.072	ug/L	95
51) Chlorobenzene	9.12	112	54607	5.560	ug/L	95
52) Ethylbenzene	9.25	91	87611	5.055	ug/L	99
53) m,p-Xylene	9.37	106	26825	4.411	ug/L	92
54) o-xylene	9.78	106	29703	4.905	ug/L	94
55) Styrene	9.79	104	49827	4.820	ug/L	96
56) Isopropylbenzene	10.16	105	78287	4.936	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	36356	5.403	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	28102	5.379	ug/L	93
61) Bromoform	9.96	173	15750	5.644	ug/L	98
62) 1,3-Dichlorobenzene	11.42	146	39642	5.985	ug/L	96
63) 1,4-Dichlorobenzene	11.51	146	39633	5.856	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	41719	6.237	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	8017	5.787	ug/L	86
67) 1,3,5-Trichlorobenzene	12.89	180	27416	5.623	ug/L	97
68) 1,2,4-trichlorobenzene	13.50	180	19394	4.715	ug/L	95
69) Naphthalene	13.75	128	59516	4.483	ug/L	96
70) 1,2,3-Trichlorobenzene	13.99	180	23250	5.369	ug/L	98

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

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#2

Dichlorodifluoromethane

Concen: 5.935 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU031213.D

Acq: 16 Apr 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

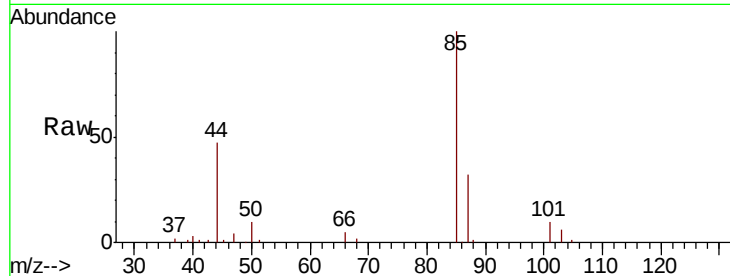
VSTD00547

Tgt Ion: 85 Resp: 27023

Ion Ratio Lower Upper

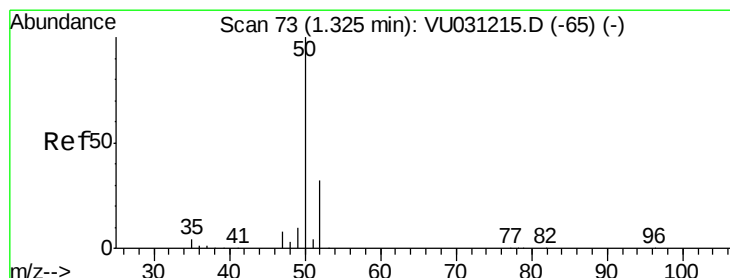
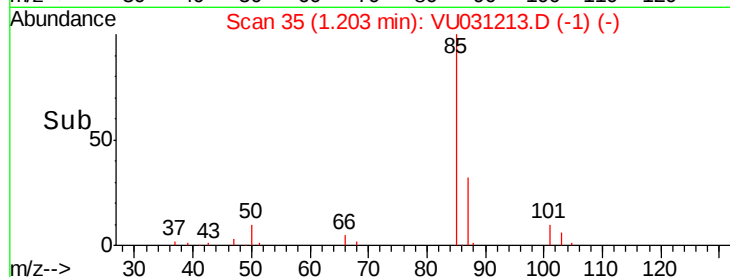
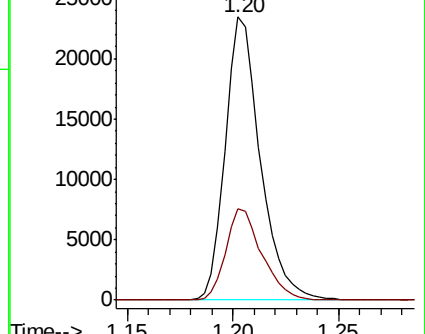
85 100

87 33.1 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VU031213.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU031213.D (-28) (-)



#3

Chloromethane

Concen: 5.821 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU031213.D

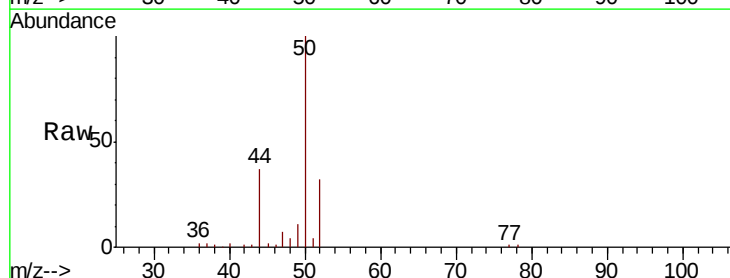
Acq: 16 Apr 2019 16:08

Tgt Ion: 50 Resp: 33602

Ion Ratio Lower Upper

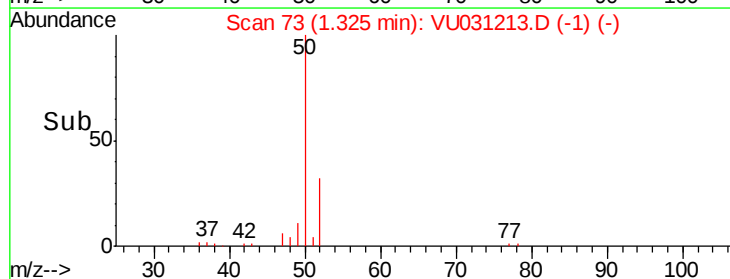
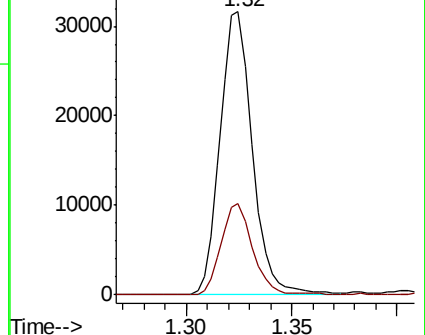
50 100

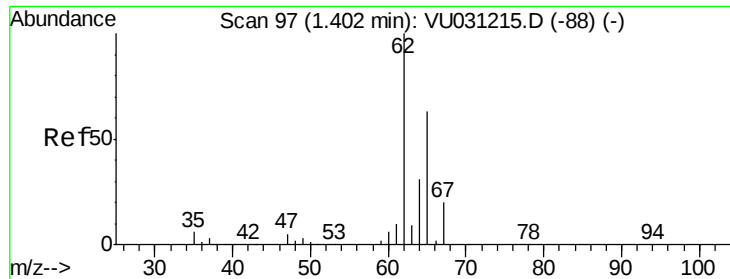
52 32.1 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VU031213.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU031213.D (-65) (-)





#5

Vinyl chloride

Concen: 5.788 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU031213.D

Acq: 16 Apr 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

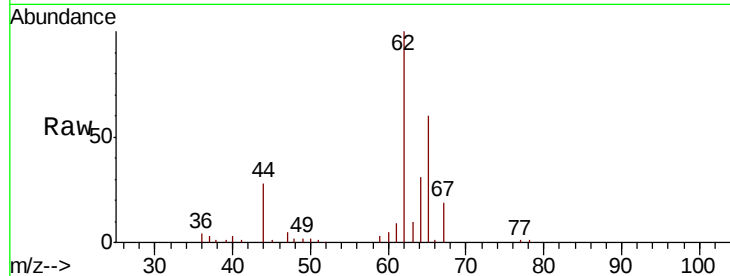
VSTD00547

Tgt Ion: 62 Resp: 32249

Ion Ratio Lower Upper

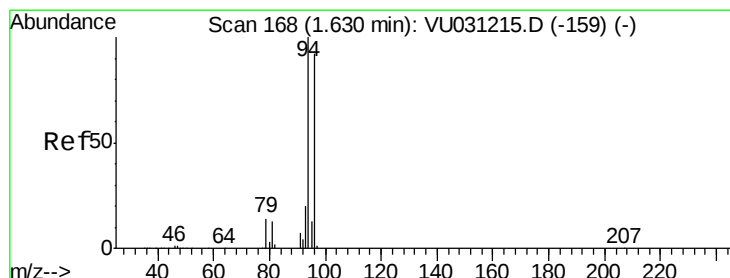
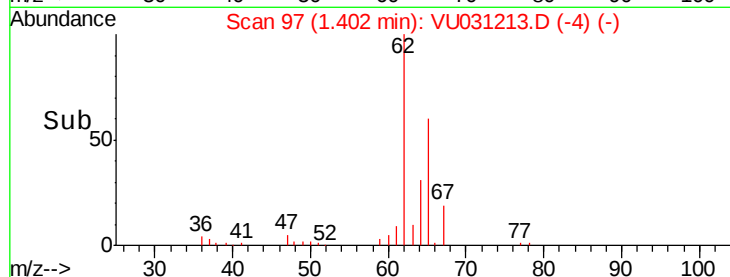
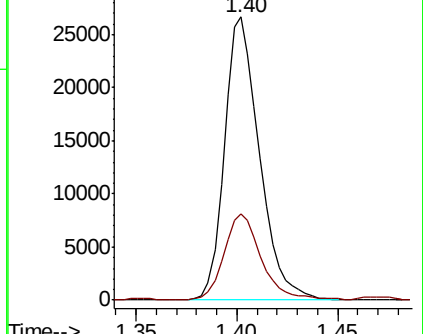
62 100

64 30.6 21.8 40.6



Abundance Ion 62.00 (61.70 to 62.70): VU031213.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU031213.D (-88) (-)



#6

Bromomethane

Concen: 6.962 ug/L

RT: 1.63 min Scan# 168

Delta R.T. -0.00 min

Lab File: VU031213.D

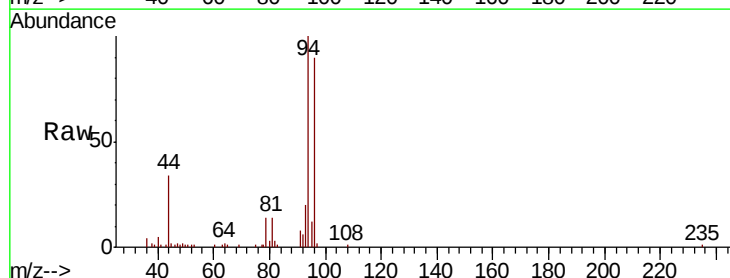
Acq: 16 Apr 2019 16:08

Tgt Ion: 94 Resp: 21276

Ion Ratio Lower Upper

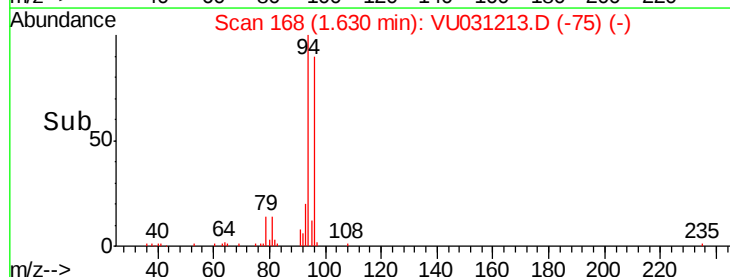
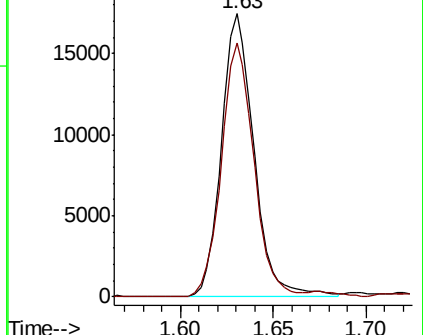
94 100

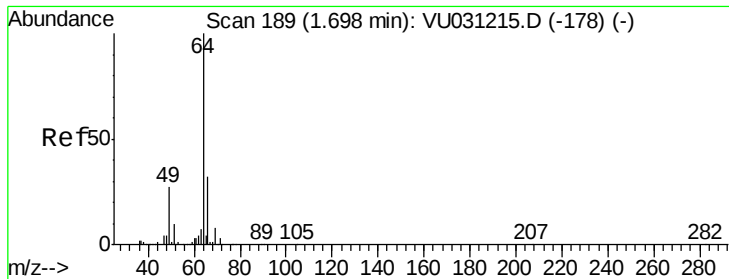
96 89.6 64.6 120.0



Abundance Ion 94.00 (93.70 to 94.70): VU031213.D (-159) (-)

Ion 96.00 (95.70 to 96.70): VU031213.D (-159) (-)

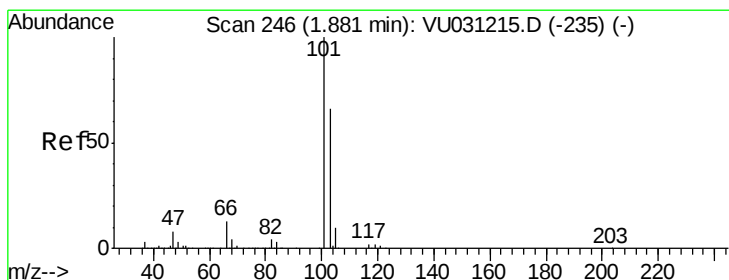
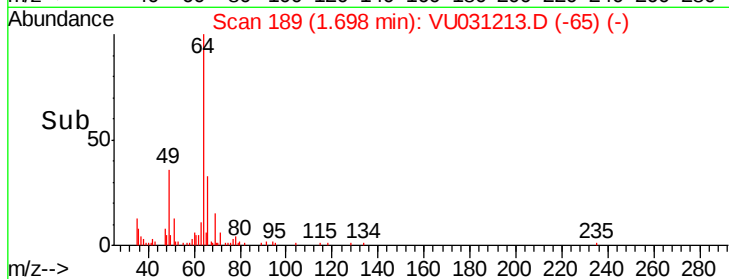
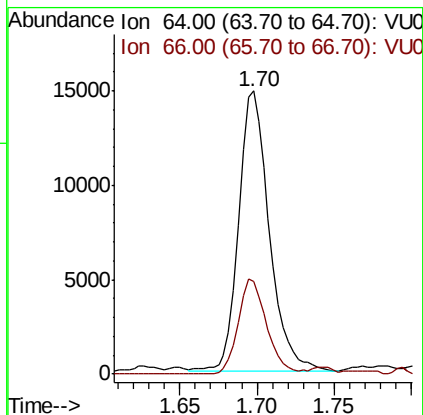
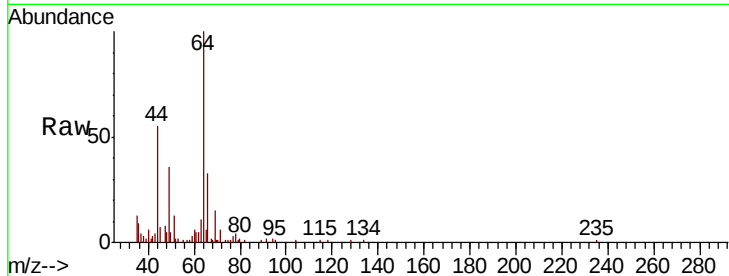




#8
Chloroethane
Concen: 6.165 ug/L
RT: 1.70 min Scan# 189
Delta R.T. -0.00 min
Lab File: VU031213.D
Acq: 16 Apr 2019 16:08

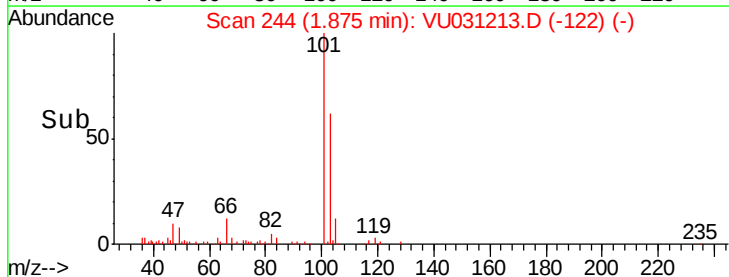
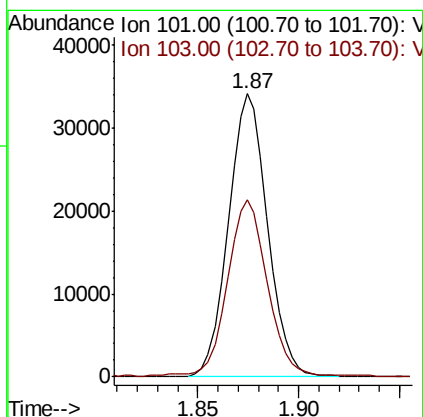
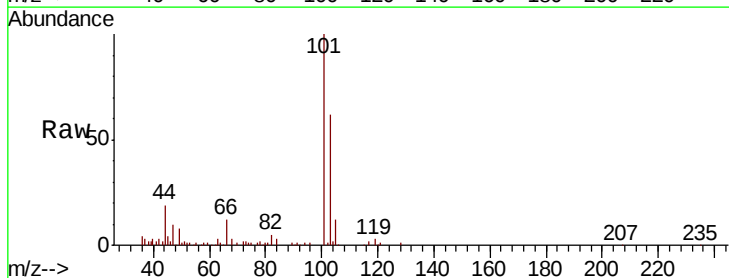
Instrument :
MSVOA_U
ClientSampleId :
VSTD00547

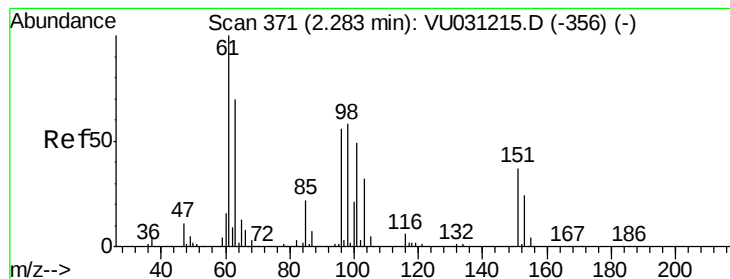
Tgt Ion: 64 Resp: 20303
Ion Ratio Lower Upper
64 100
66 32.5 22.6 42.0



#9
Trichlorofluoromethane
Concen: 6.809 ug/L
RT: 1.87 min Scan# 244
Delta R.T. -0.01 min
Lab File: VU031213.D
Acq: 16 Apr 2019 16:08

Tgt Ion: 101 Resp: 46184
Ion Ratio Lower Upper
101 100
103 63.7 53.0 79.6





#10

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

Concen: 6.161 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU031213.D

Acq: 16 Apr 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD00547

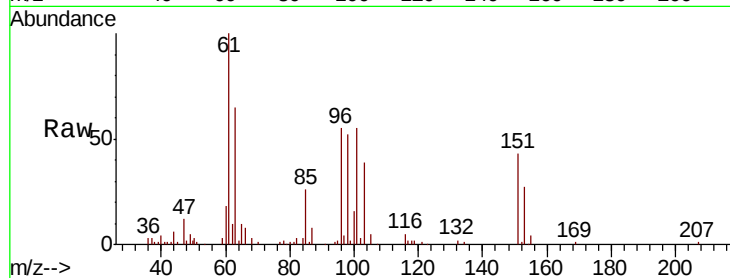
Tgt Ion:101 Resp: 23070

Ion Ratio Lower Upper

101 100

85 48.5 35.4 53.0

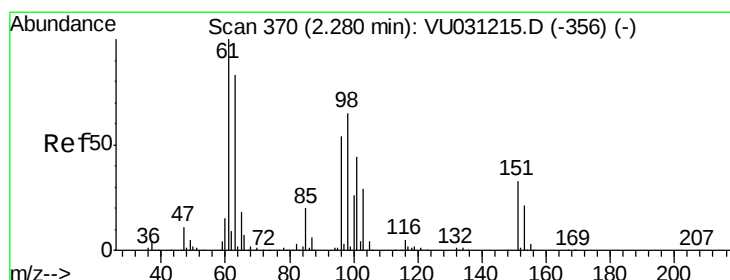
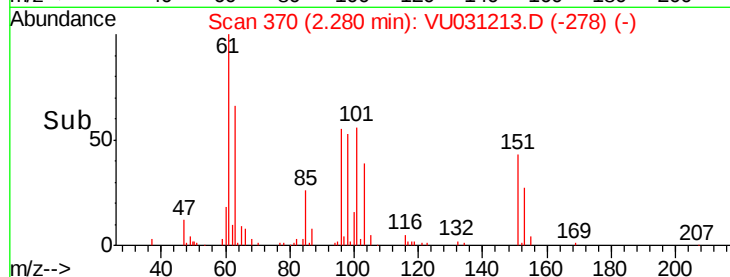
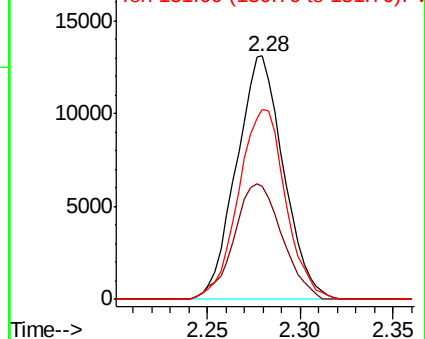
151 78.3 59.8 89.8



Abundance Ion 101.00 (100.70 to 101.70): VU031213.D (-278) (-)

Ion 85.00 (84.70 to 85.70): VU031213.D (-278) (-)

Ion 151.00 (150.70 to 151.70): VU031213.D (-278) (-)



#12

1,1-Dichloroethene

Concen: 6.290 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.01 min

Lab File: VU031213.D

Acq: 16 Apr 2019 16:08

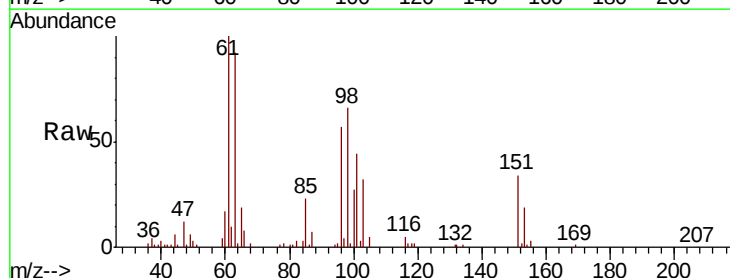
Tgt Ion: 96 Resp: 22610

Ion Ratio Lower Upper

96 100

61 176.1 130.4 242.2

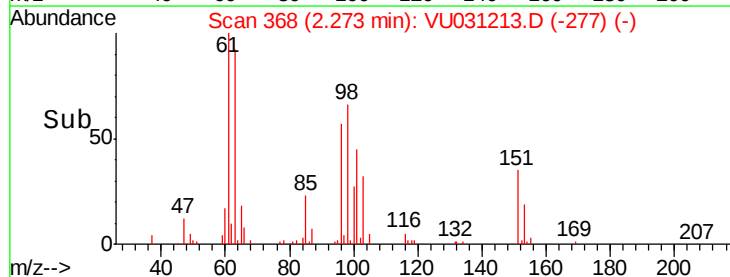
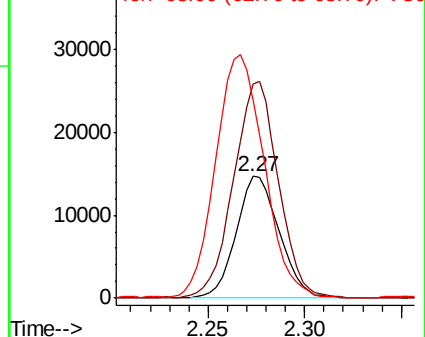
63 162.0 108.9 202.3

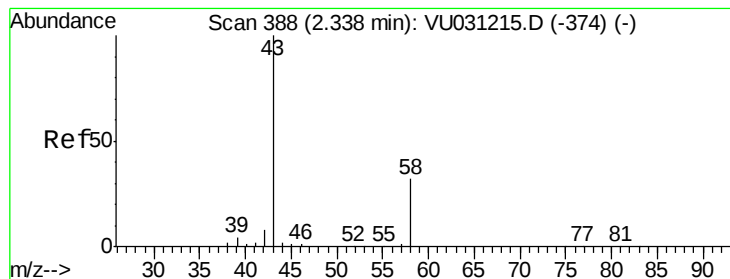


Abundance Ion 96.00 (95.70 to 96.70): VU031213.D (-277) (-)

Ion 61.00 (60.70 to 61.70): VU031213.D (-277) (-)

Ion 63.00 (62.70 to 63.70): VU031213.D (-277) (-)





#13

Acetone

Concen: 8.256 ug/L

RT: 2.34 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU031213.D

Acq: 16 Apr 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

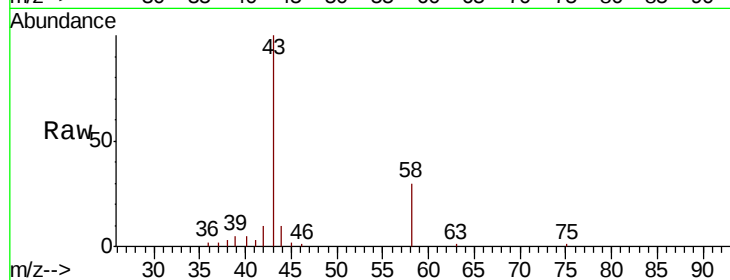
VSTD00547

Tgt Ion: 43 Resp: 28774

Ion Ratio Lower Upper

43 100

58 33.1 0.0 65.0



Abundance Ion 43.00 (42.70 to 43.70): VU031213.D (-374) (-)

Ion 58.00 (57.70 to 58.70): VU031213.D (-374) (-)

2.34

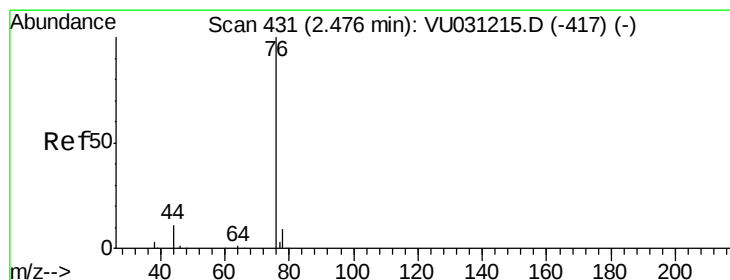
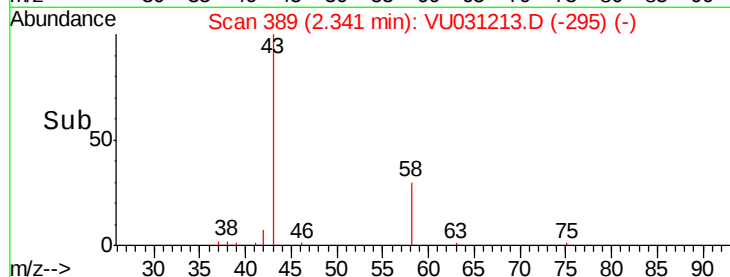
10000

5000

0

2.30 2.40

Time-->



#14

Carbon disulfide

Concen: 5.567 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.01 min

Lab File: VU031213.D

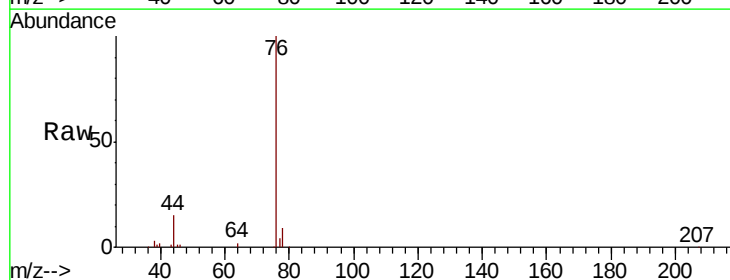
Acq: 16 Apr 2019 16:08

Tgt Ion: 76 Resp: 60765

Ion Ratio Lower Upper

76 100

78 8.6 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU031213.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU031213.D (-417) (-)

2.47

40000

30000

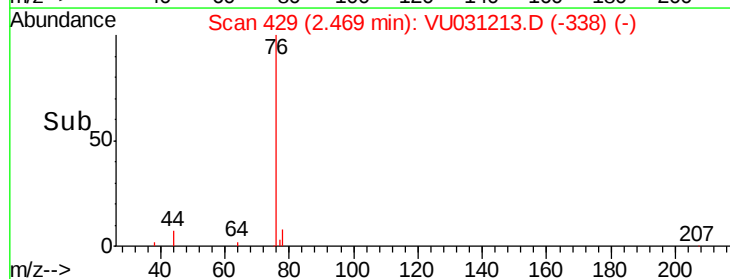
20000

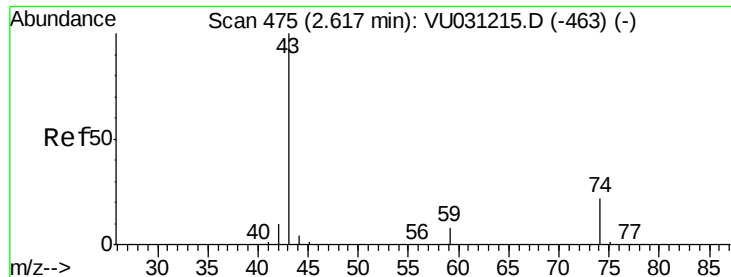
10000

0

2.40 2.45 2.50 2.55

Time-->

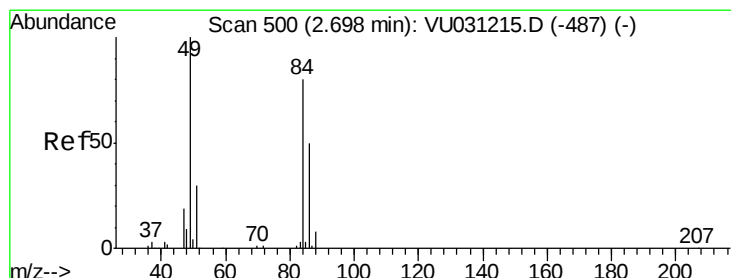
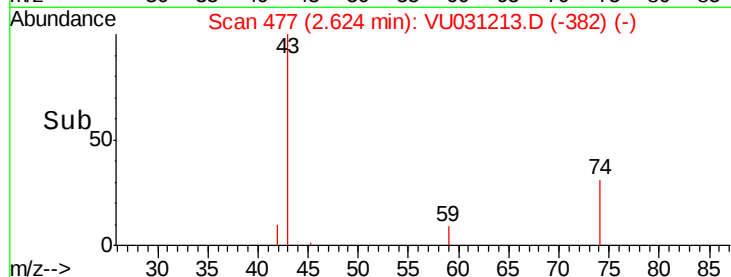
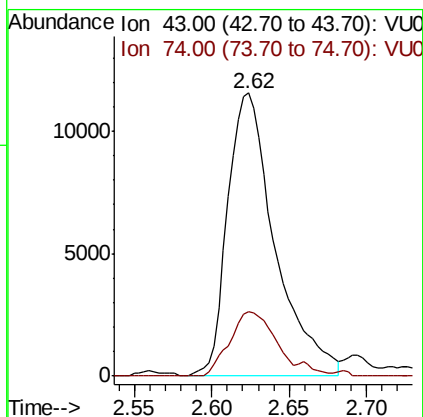
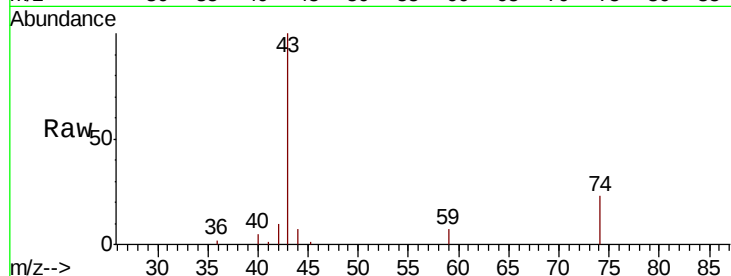




#15
Methyl Acetate
Concen: 4.473 ug/L
RT: 2.62 min Scan# 477
Delta R.T. 0.01 min
Lab File: VU031213.D
Acq: 16 Apr 2019 16:08

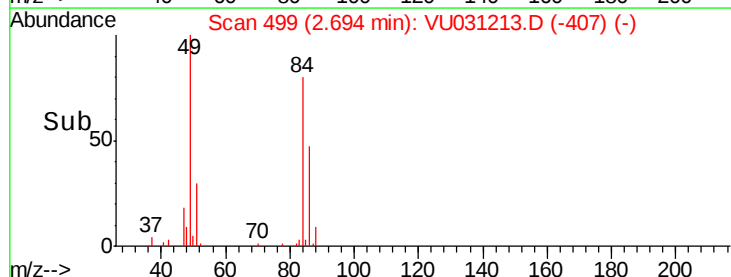
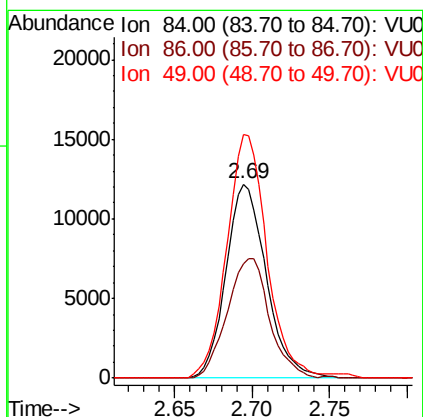
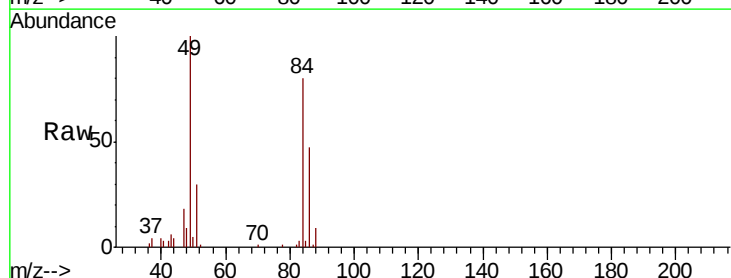
Instrument :
MSVOA_U
ClientSampleId :
VSTD00547

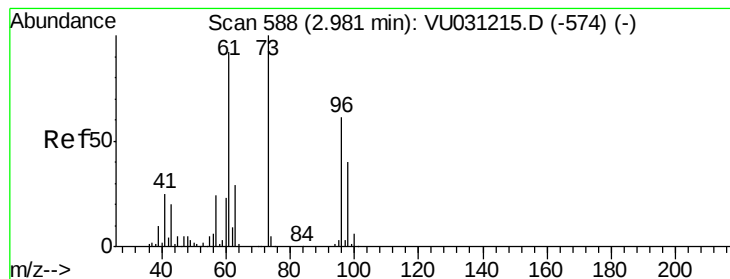
Tgt Ion: 43 Resp: 24578
Ion Ratio Lower Upper
43 100
74 21.4 18.3 27.5



#16
Methylene chloride
Concen: 5.212 ug/L
RT: 2.69 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU031213.D
Acq: 16 Apr 2019 16:08

Tgt Ion: 84 Resp: 22003
Ion Ratio Lower Upper
84 100
86 59.2 44.0 81.8
49 125.4 88.0 163.4





#17

trans-1,2-Dichloroethene

Concen: 5.795 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU031213.D

Acq: 16 Apr 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD00547

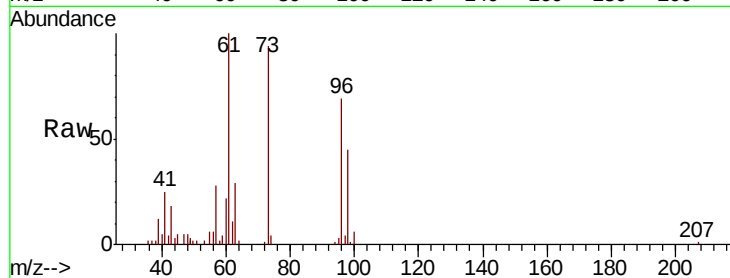
Tgt Ion: 96 Resp: 21444

Ion Ratio Lower Upper

96 100

61 144.5 105.5 195.9

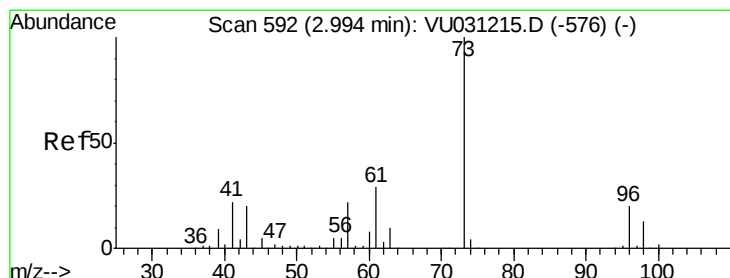
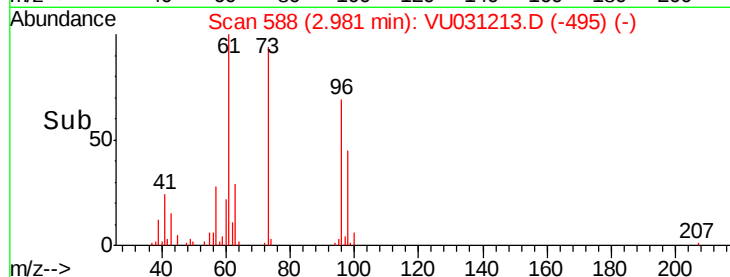
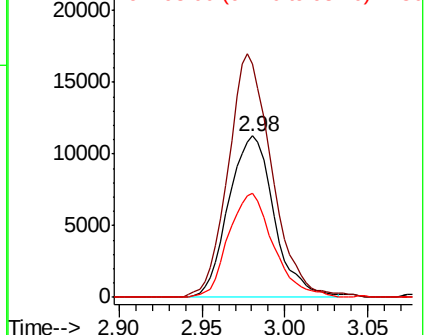
98 64.5 45.4 84.4



Abundance Ion 96.00 (95.70 to 96.70): VU031213.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU031213.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU031213.D (-574) (-)



#18

Methyl tert-butyl Ether

Concen: 5.058 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU031213.D

Acq: 16 Apr 2019 16:08

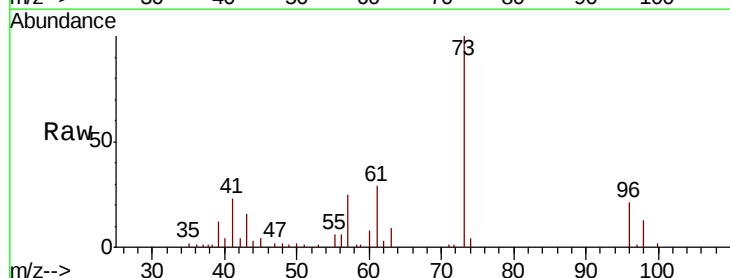
Tgt Ion: 73 Resp: 62334

Ion Ratio Lower Upper

73 100

43 18.2 15.6 23.4

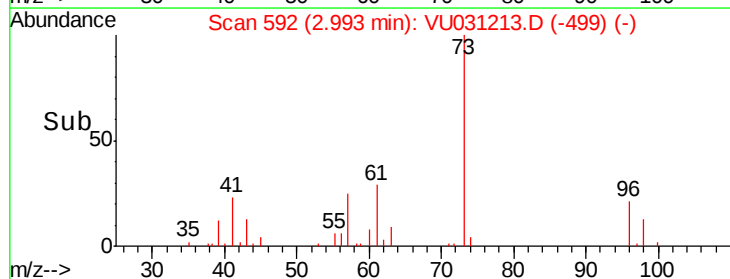
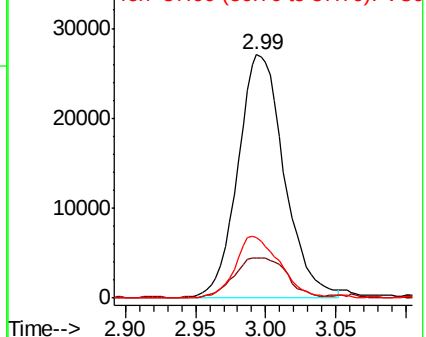
57 24.4 18.0 27.0

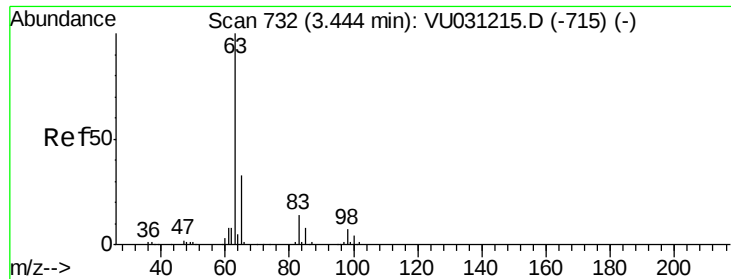


Abundance Ion 73.00 (72.70 to 73.70): VU031213.D (-576) (-)

Ion 43.00 (42.70 to 43.70): VU031213.D (-576) (-)

Ion 57.00 (56.70 to 57.70): VU031213.D (-576) (-)

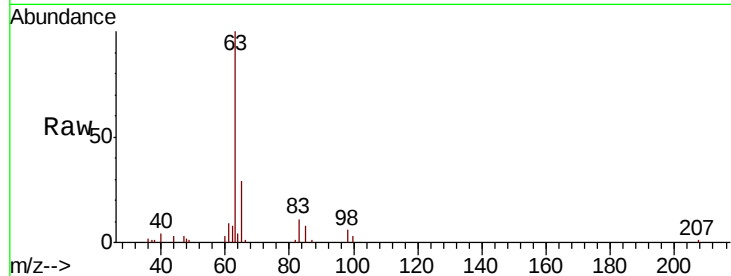




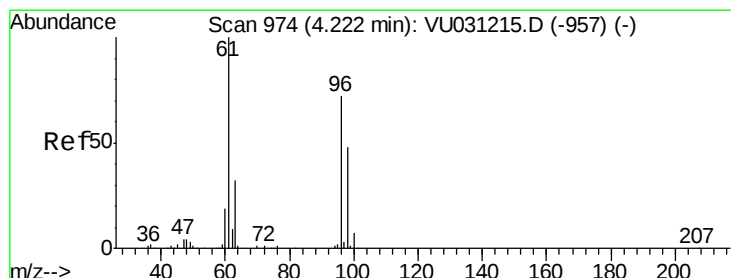
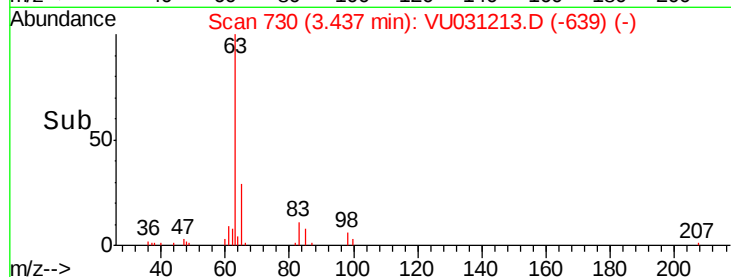
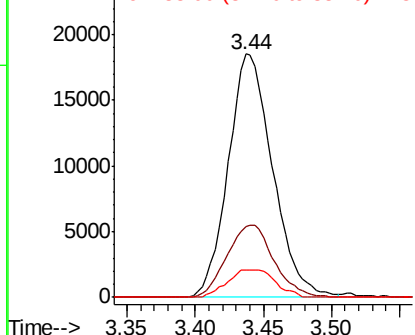
#19
 1,1-Dichloroethane
 Concen: 5.501 ug/L
 RT: 3.44 min Scan# 730
 Delta R.T. -0.01 min
 Lab File: VU031213.D
 Acq: 16 Apr 2019 16:08

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00547

Tgt Ion: 63 Resp: 41856
 Ion Ratio Lower Upper
 63 100
 65 28.8 22.8 42.4
 83 11.4 9.7 17.9

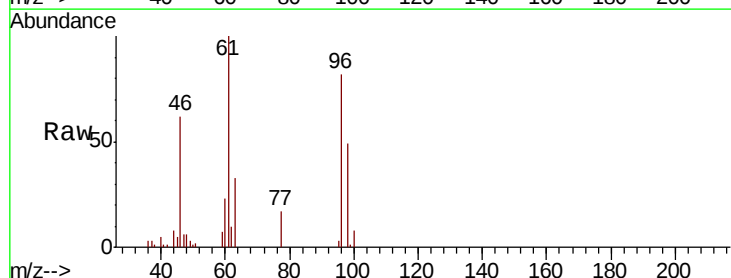


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

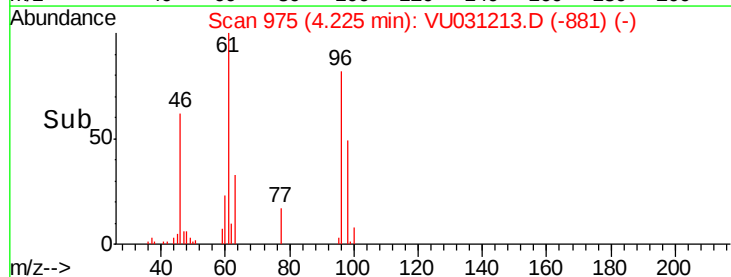
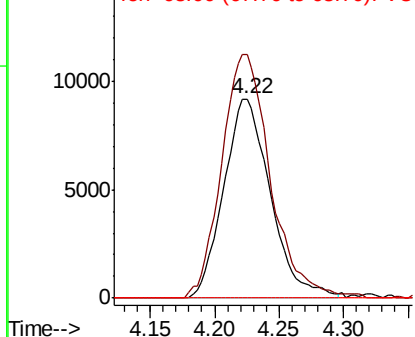


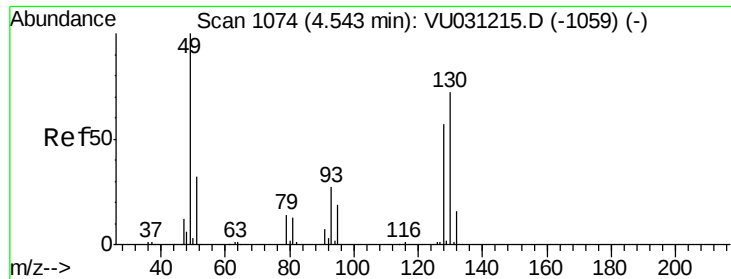
#20
 cis-1,2-Dichloroethene
 Concen: 5.502 ug/L
 RT: 4.22 min Scan# 975
 Delta R.T. 0.00 min
 Lab File: VU031213.D
 Acq: 16 Apr 2019 16:08

Tgt Ion: 96 Resp: 23174
 Ion Ratio Lower Upper
 96 100
 61 122.0 98.2 182.4
 68 0.0 0.0 0.0



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

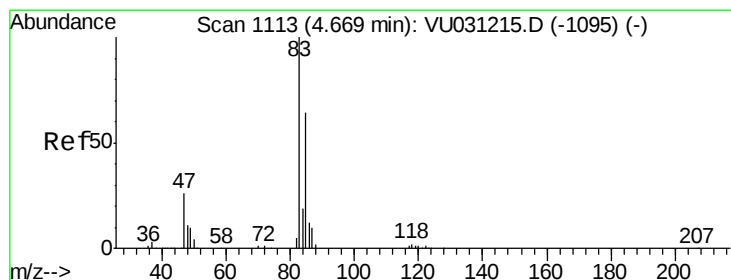
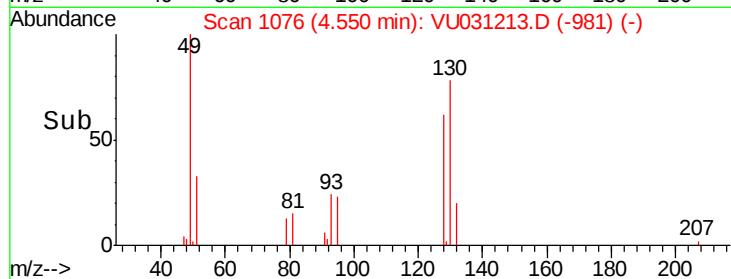
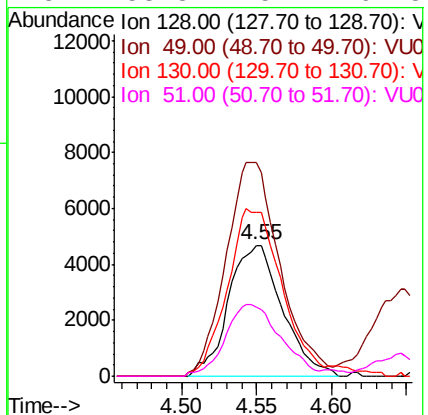
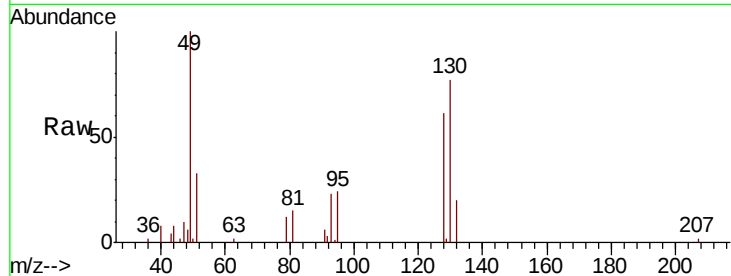




#23
Bromochloromethane
Concen: 5.869 ug/L
RT: 4.55 min Scan# 1076
Delta R.T. 0.01 min
Lab File: VU031213.D
Acq: 16 Apr 2019 16:08

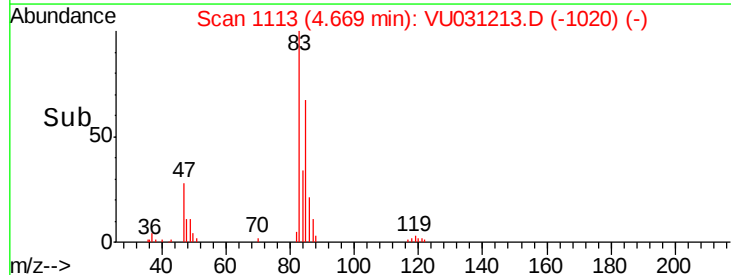
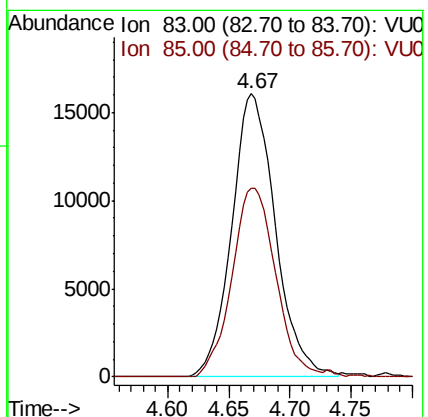
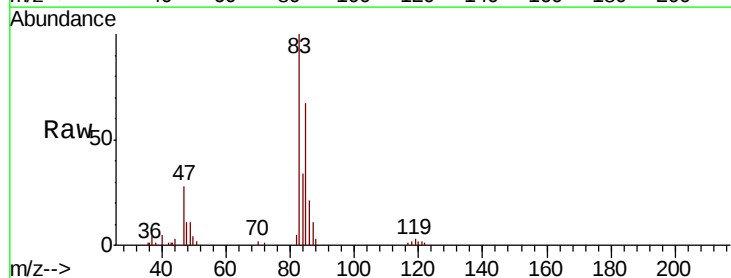
Instrument :
MSVOA_U
ClientSampleId :
VSTD00547

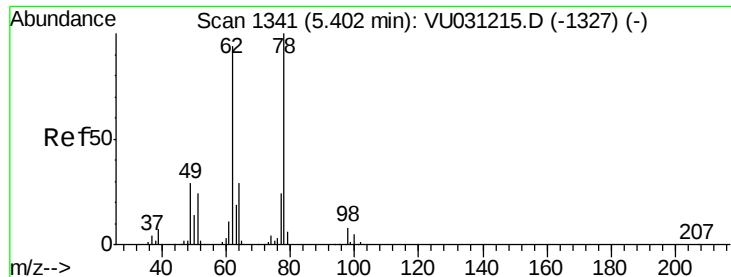
Tgt Ion:128 Resp: 11746
Ion Ratio Lower Upper
128 100
49 163.3 124.0 230.4
130 125.4 89.7 166.5
51 53.3 45.2 67.8



#25
Chloroform
Concen: 5.092 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU031213.D
Acq: 16 Apr 2019 16:08

Tgt Ion: 83 Resp: 39876
Ion Ratio Lower Upper
83 100
85 66.6 44.8 83.2





#27

1,2-Dichloroethane

Concen: 5.088 ug/L

RT: 5.40 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VU031213.D

Acq: 16 Apr 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

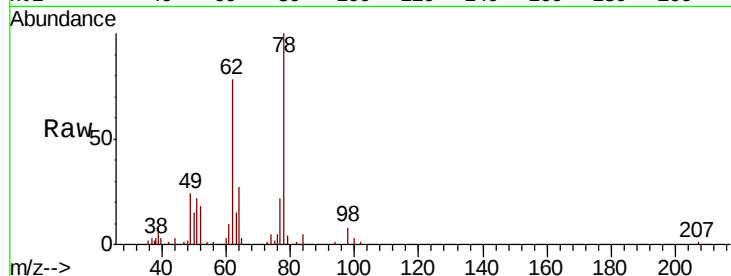
VSTD00547

Tgt Ion: 62 Resp: 30241

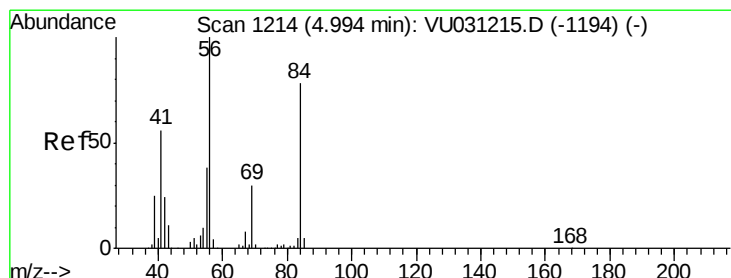
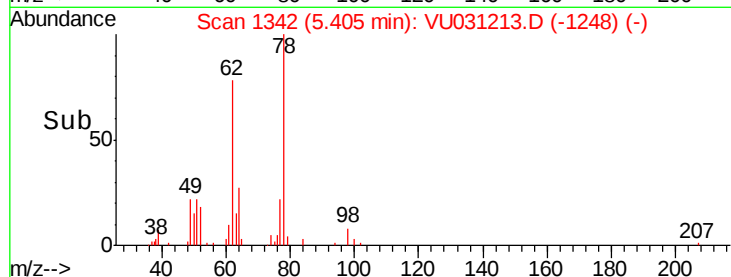
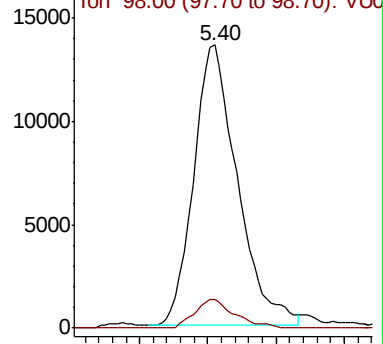
Ion Ratio Lower Upper

62 100

98 10.1 7.0 10.6



Abundance Ion 62.00 (61.70 to 62.70): VU031213.D (-1248) (-)



#29

Cyclohexane

Concen: 5.182 ug/L

RT: 4.99 min Scan# 1212

Delta R.T. -0.01 min

Lab File: VU031213.D

Acq: 16 Apr 2019 16:08

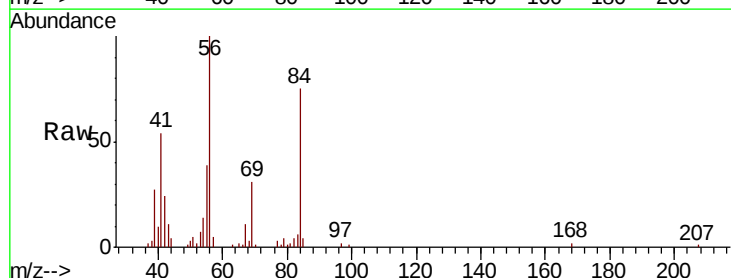
Tgt Ion: 56 Resp: 35512

Ion Ratio Lower Upper

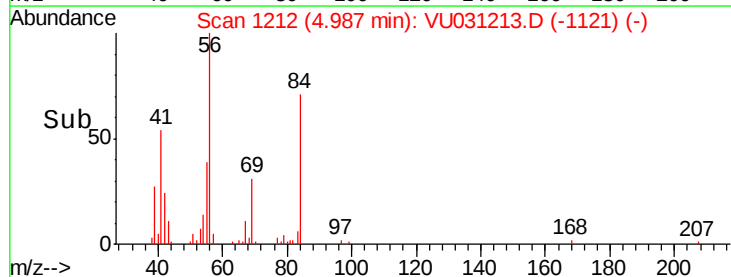
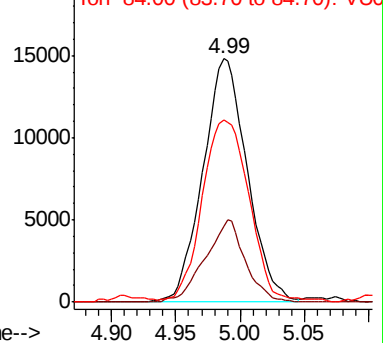
56 100

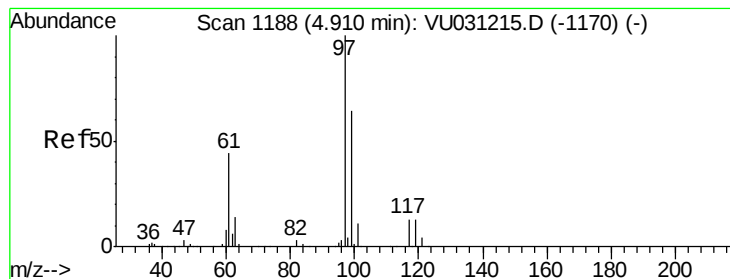
69 30.5 23.0 34.6

84 79.3 61.8 92.6



Abundance Ion 56.00 (55.70 to 56.70): VU031213.D (-1121) (-)





#30

1,1,1-Trichloroethane

Concen: 6.080 ug/L

RT: 4.91 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VU031213.D

Acq: 16 Apr 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD00547

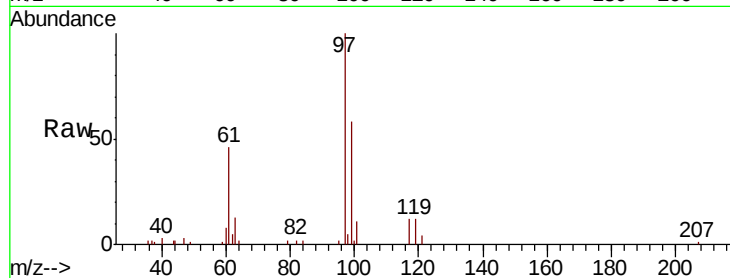
Tgt Ion: 97 Resp: 36005

Ion Ratio Lower Upper

97 100

99 26.9 51.4 77.2#

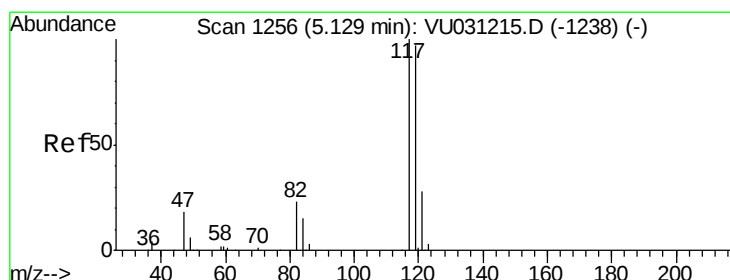
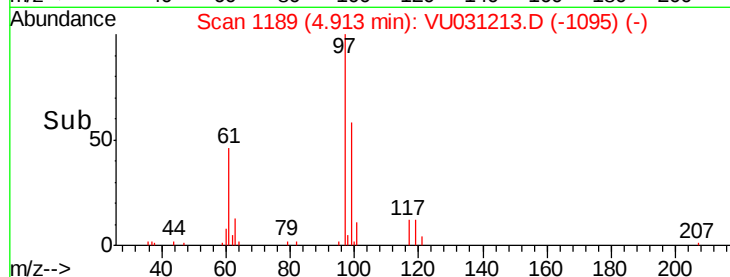
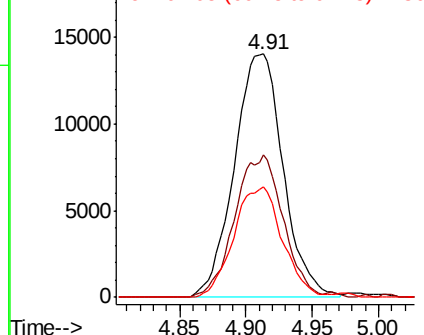
61 45.1 35.0 52.4



Abundance Ion 97.00 (96.70 to 97.70): VU031213.D (-1170) (-)

Ion 99.00 (98.70 to 99.70): VU031213.D (-1170) (-)

Ion 61.05 (60.75 to 61.75): VU031213.D (-1170) (-)



#31

Carbon tetrachloride

Concen: 5.924 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VU031213.D

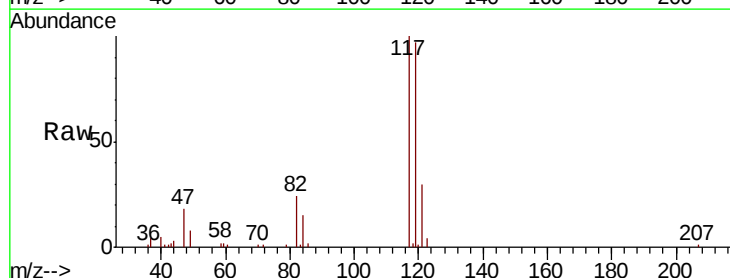
Acq: 16 Apr 2019 16:08

Tgt Ion: 117 Resp: 30255

Ion Ratio Lower Upper

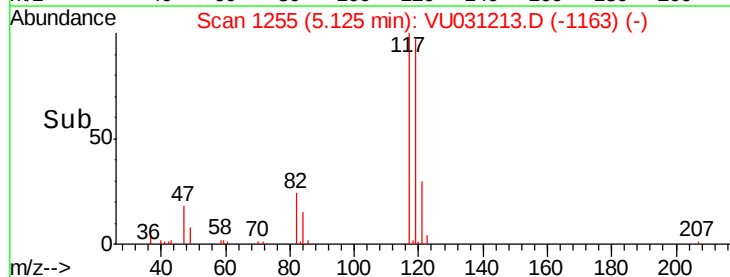
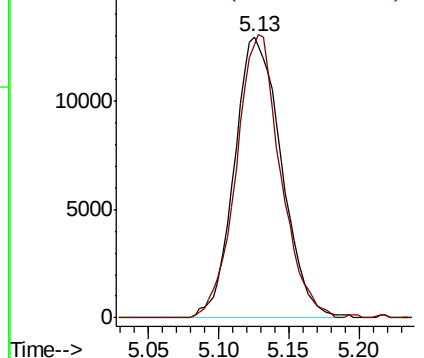
117 100

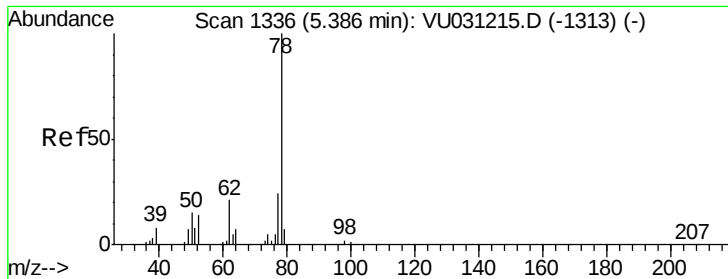
119 95.2 78.0 117.0



Abundance Ion 117.00 (116.70 to 117.70): VU031213.D (-1238) (-)

Ion 119.00 (118.70 to 119.70): VU031213.D (-1238) (-)

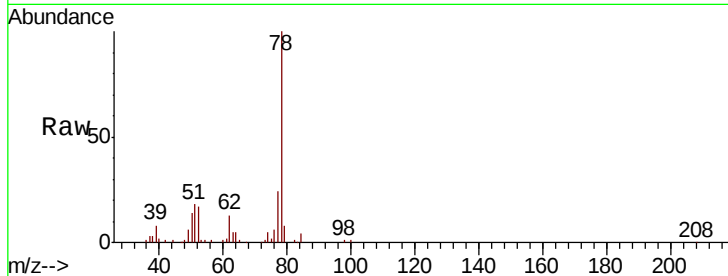




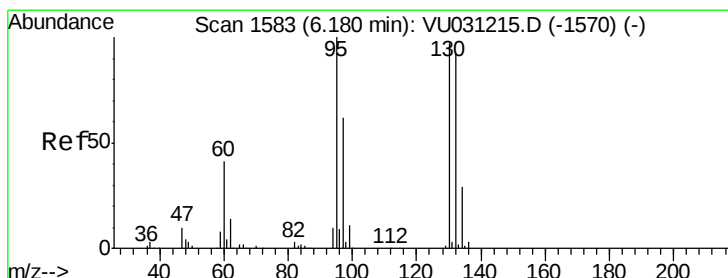
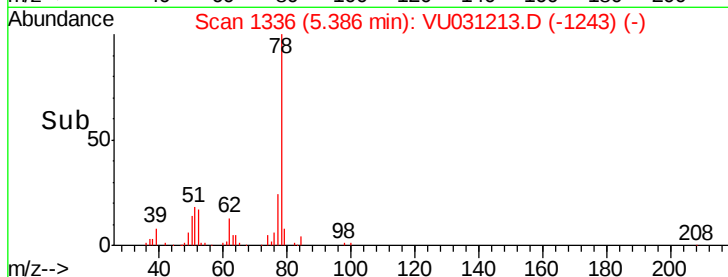
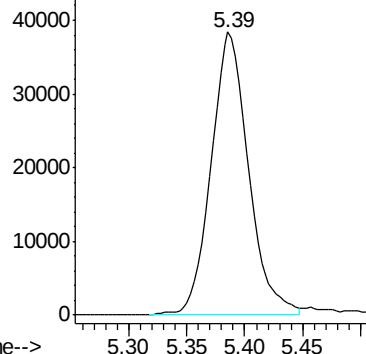
#33
Benzene
Concen: 5.501 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. -0.00 min
Lab File: VU031213.D
Acq: 16 Apr 2019 16:08

Instrument :
MSVOA_U
ClientSampleId :
VSTD00547

Tgt Ion: 78 Resp: 86496



Abundance Ion 78.00 (77.70 to 78.70): VU0

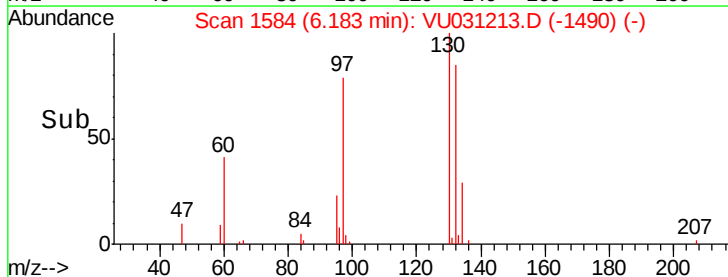
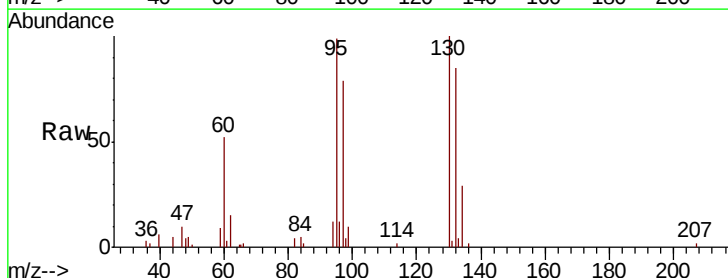
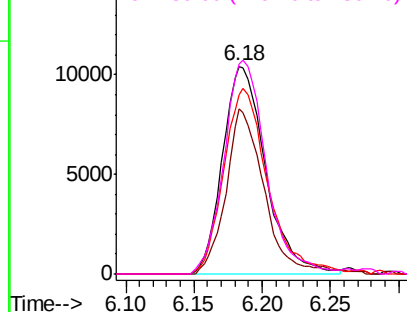


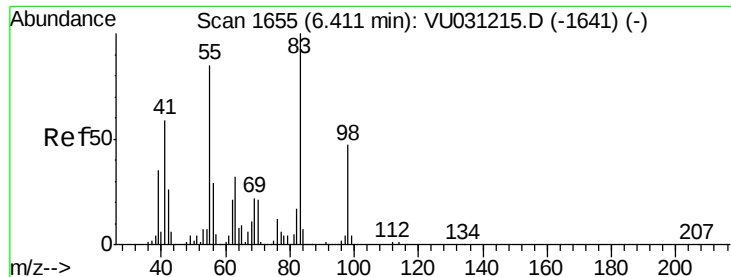
#34
Trichloroethene
Concen: 5.942 ug/L
RT: 6.18 min Scan# 1584
Delta R.T. 0.00 min
Lab File: VU031213.D
Acq: 16 Apr 2019 16:08

Tgt Ion: 95 Resp: 22921

Ion	Ratio	Lower	Upper
95	100		
97	79.6	43.6	81.0
132	86.0	64.5	119.7
130	101.1	68.0	126.2

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

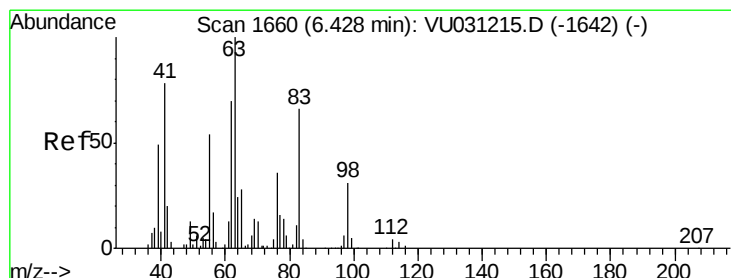
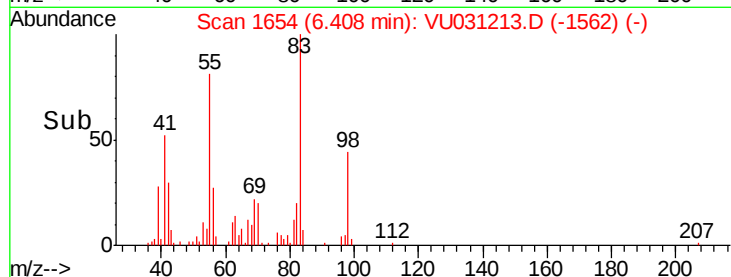
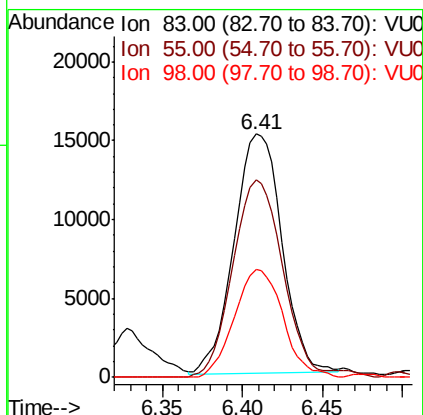
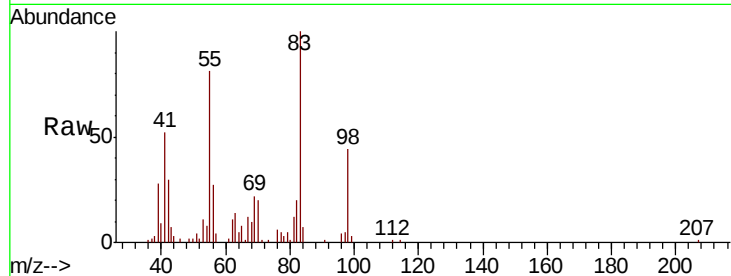




#35
Methylcyclohexane
Concen: 5.257 ug/L
RT: 6.41 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VU031213.D
Acq: 16 Apr 2019 16:08

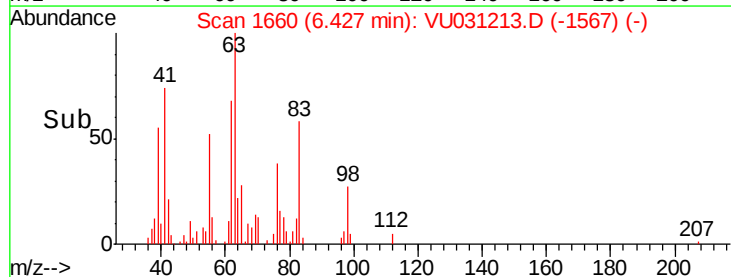
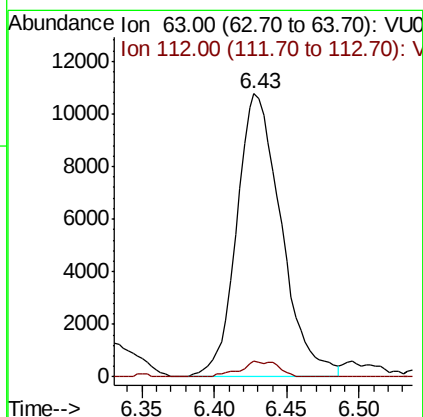
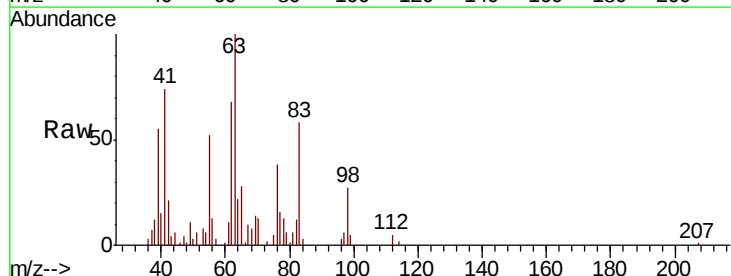
Instrument :
MSVOA_U
ClientSampleId :
VSTD00547

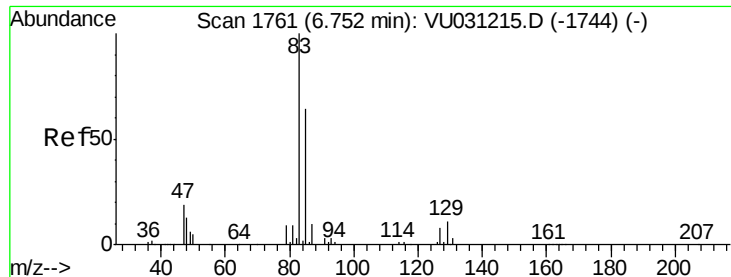
Tgt Ion: 83 Resp: 30980
Ion Ratio Lower Upper
83 100
55 87.6 67.0 100.4
98 45.9 36.9 55.3



#37
1,2-Dichloropropane
Concen: 5.259 ug/L
RT: 6.43 min Scan# 1660
Delta R.T. -0.00 min
Lab File: VU031213.D
Acq: 16 Apr 2019 16:08

Tgt Ion: 63 Resp: 23015
Ion Ratio Lower Upper
63 100
112 3.0 3.3 4.9#

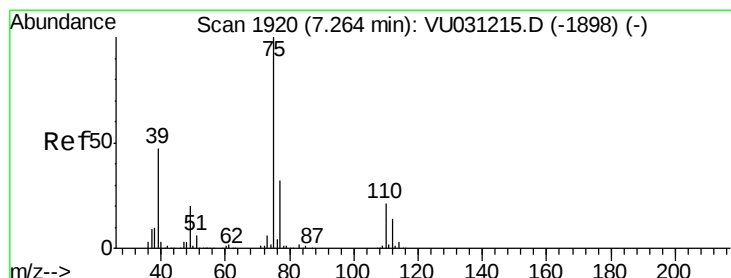
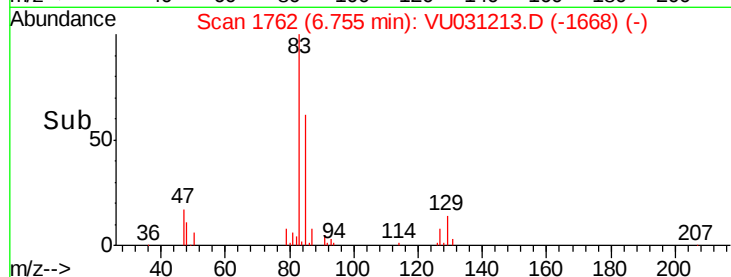
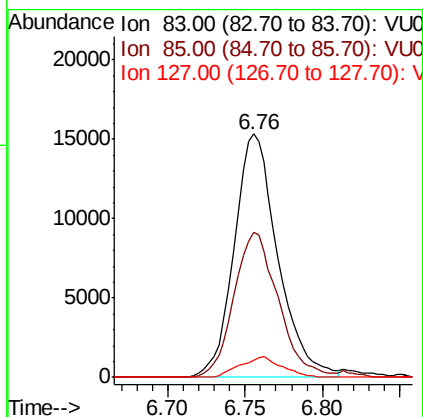
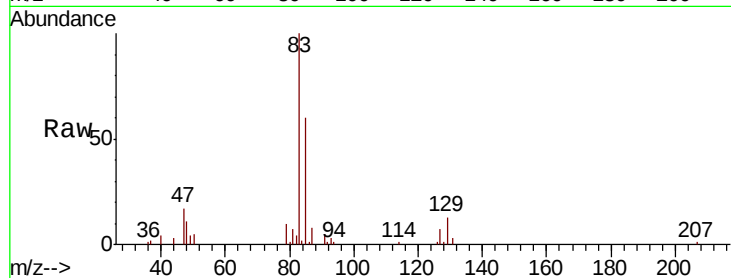




#38
 Bromodichloromethane
 Concen: 5.617 ug/L
 RT: 6.76 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: VU031213.D
 Acq: 16 Apr 2019 16:08

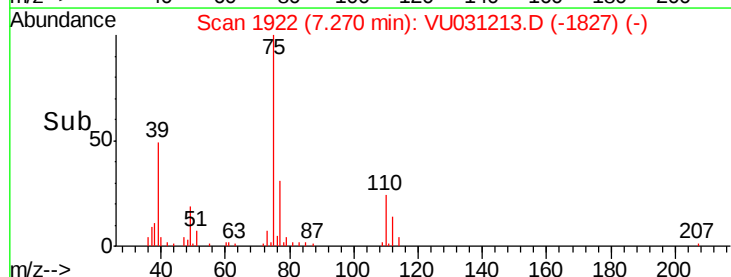
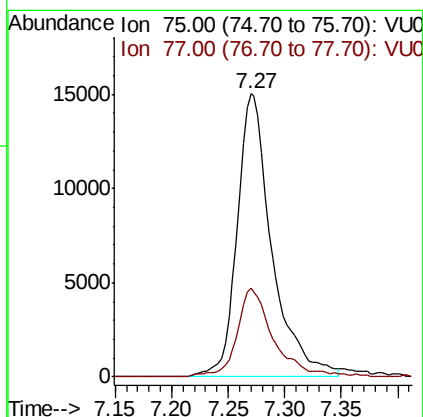
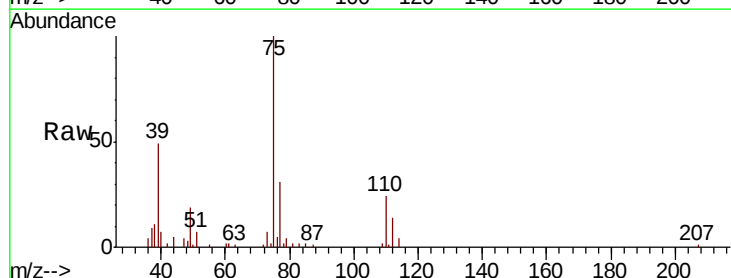
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00547

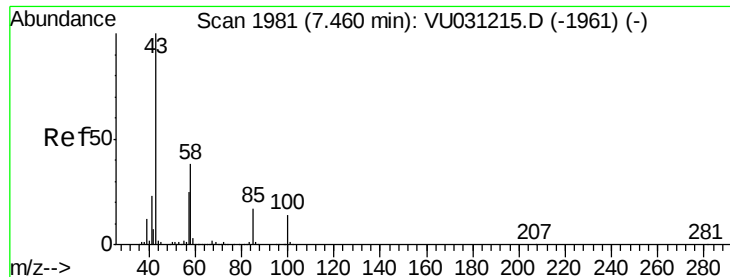
Tgt Ion: 83 Resp: 30032
 Ion Ratio Lower Upper
 83 100
 85 59.6 44.5 82.7
 127 7.2 6.6 9.8



#39
 cis-1,3-Dichloropropene
 Concen: 5.162 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.01 min
 Lab File: VU031213.D
 Acq: 16 Apr 2019 16:08

Tgt Ion: 75 Resp: 32243
 Ion Ratio Lower Upper
 75 100
 77 31.3 22.7 42.1

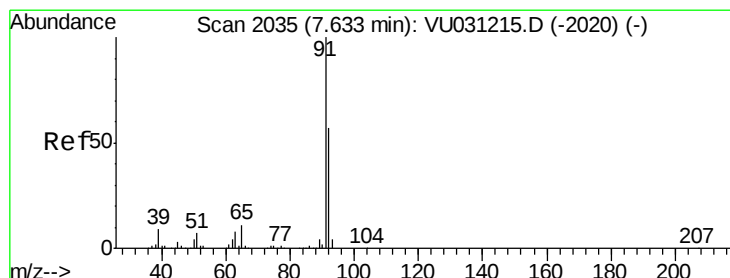
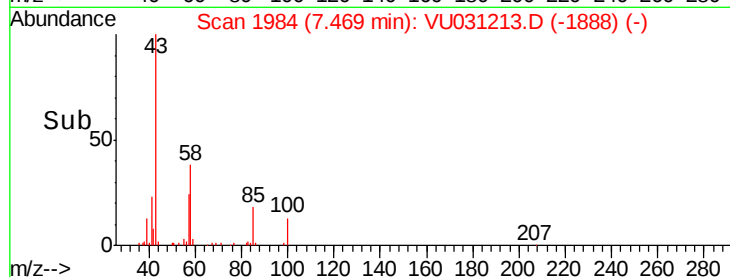
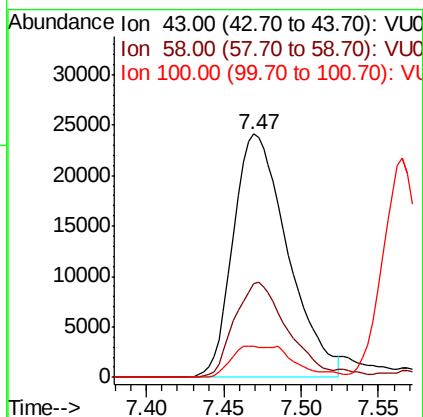
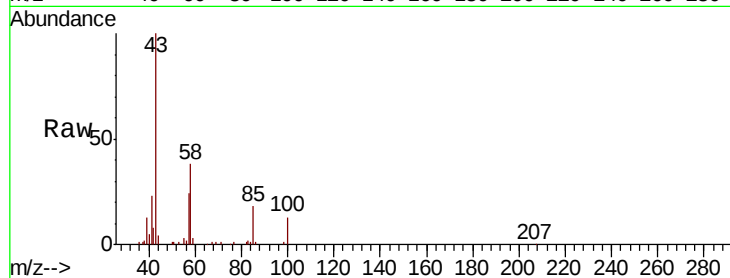




#40
 4-Methyl-2-pentanone
 Concen: 8.599 ug/L
 RT: 7.47 min Scan# 1984
 Delta R.T. 0.01 min
 Lab File: VU031213.D
 Acq: 16 Apr 2019 16:08

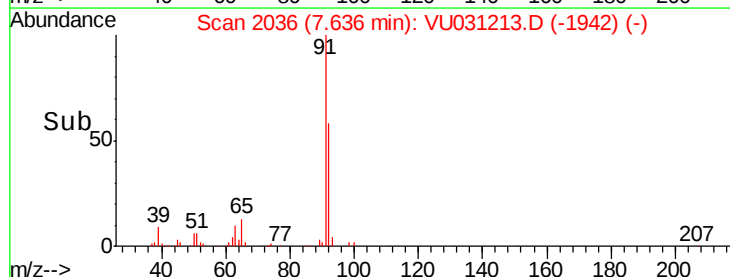
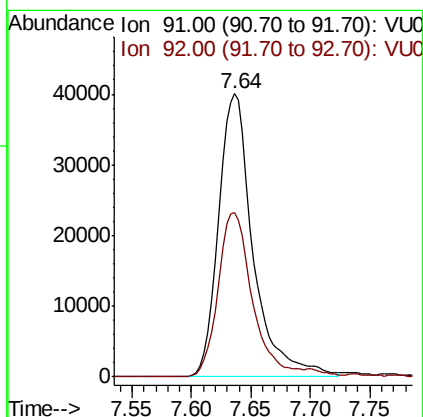
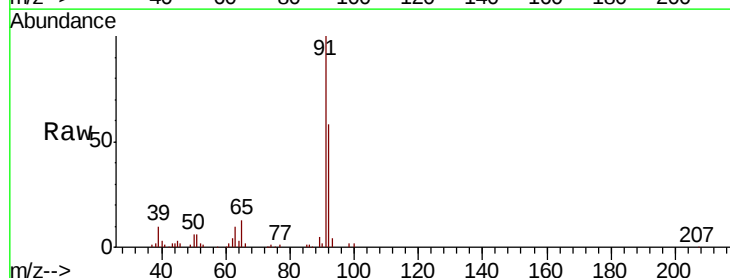
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00547

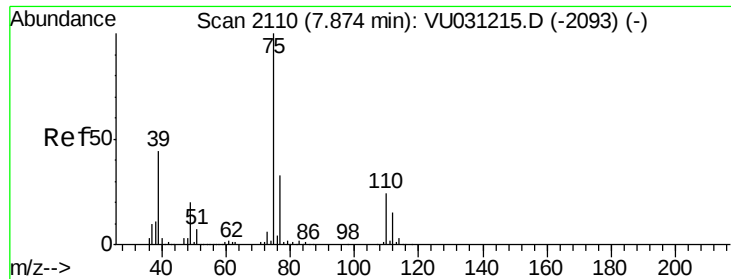
Tgt Ion: 43 Resp: 59043
 Ion Ratio Lower Upper
 43 100
 58 37.6 31.0 46.4
 100 7.5 10.6 16.0#



#42
 Toluene
 Concen: 5.097 ug/L
 RT: 7.64 min Scan# 2036
 Delta R.T. 0.00 min
 Lab File: VU031213.D
 Acq: 16 Apr 2019 16:08

Tgt Ion: 91 Resp: 80954
 Ion Ratio Lower Upper
 91 100
 92 58.0 40.1 74.5





#44

trans-1,3-Dichloropropene

Concen: 5.007 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.01 min

Lab File: VU031213.D

Acq: 16 Apr 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

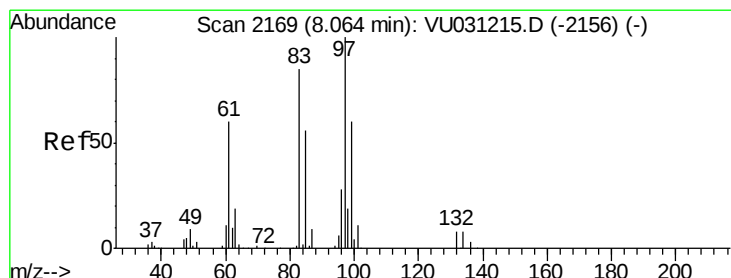
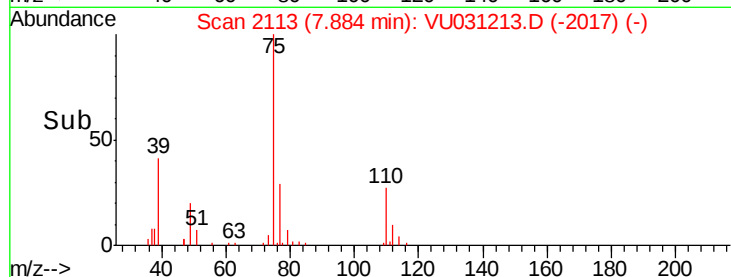
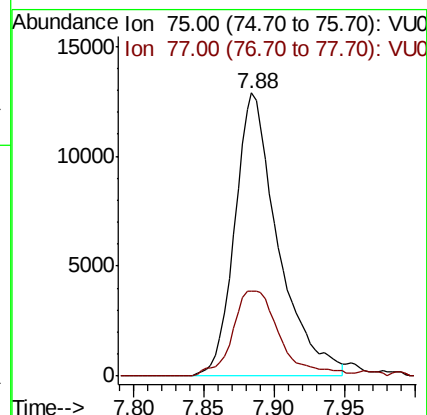
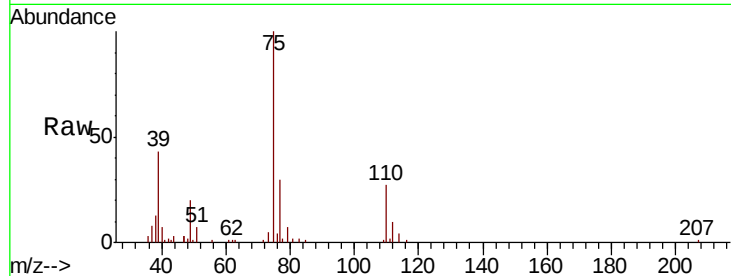
VSTD00547

Tgt Ion: 75 Resp: 27655

Ion Ratio Lower Upper

75 100

77 30.1 22.8 42.4



#45

1,1,2-Trichloroethane

Concen: 5.433 ug/L

RT: 8.07 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU031213.D

Acq: 16 Apr 2019 16:08

Tgt Ion: 97 Resp: 20507

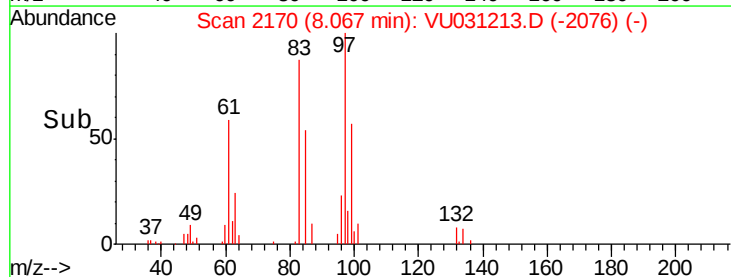
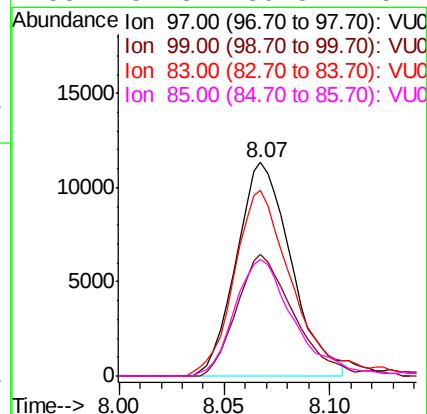
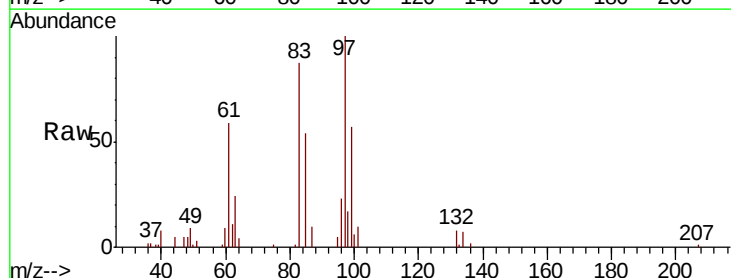
Ion Ratio Lower Upper

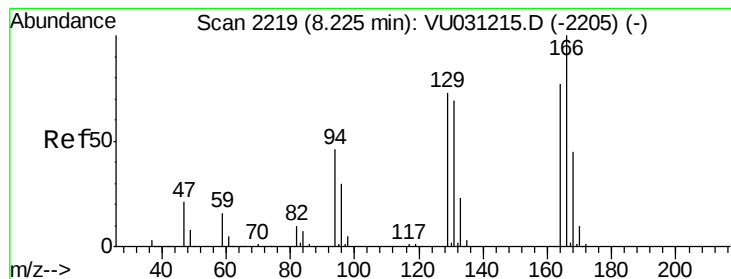
97 100

99 56.7 42.2 78.4

83 87.0 59.8 111.1

85 54.3 39.5 73.4





#46

Tetrachloroethene

Concen: 5.674 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. -0.00 min

Lab File: VU031213.D

Acq: 16 Apr 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD00547

Tgt Ion:164 Resp: 16092

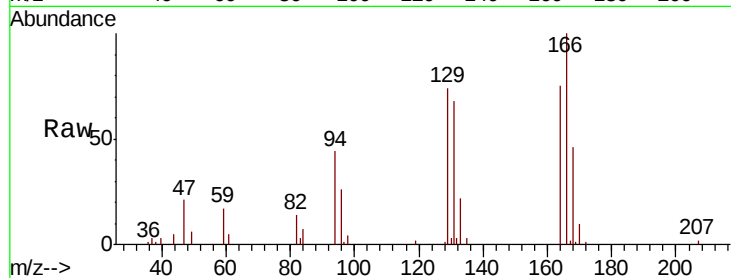
Ion Ratio Lower Upper

164 100

129 98.6 66.5 123.5

131 90.4 62.3 115.7

166 133.6 90.6 168.3

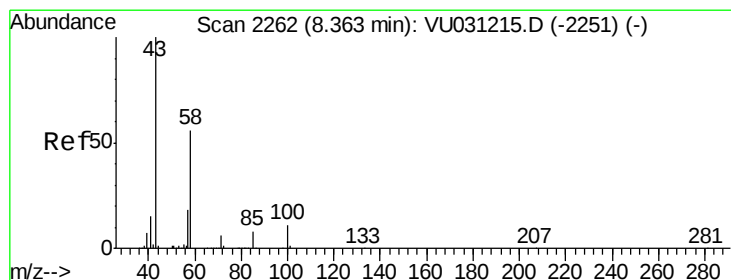
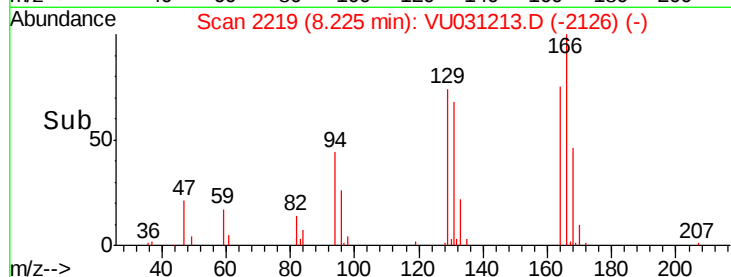
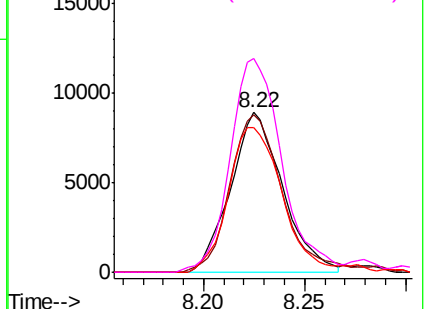


Abundance Ion 164.00 (163.70 to 164.70): V

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: 8.904 ug/L

RT: 8.38 min Scan# 2267

Delta R.T. 0.02 min

Lab File: VU031213.D

Acq: 16 Apr 2019 16:08

Tgt Ion: 43 Resp: 47509

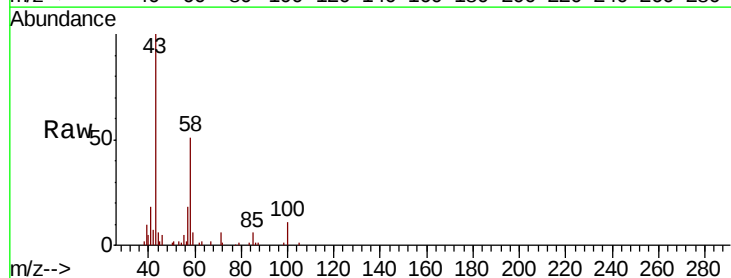
Ion Ratio Lower Upper

43 100

58 51.0 44.9 67.3

57 17.8 15.1 22.7

100 10.0 8.6 13.0

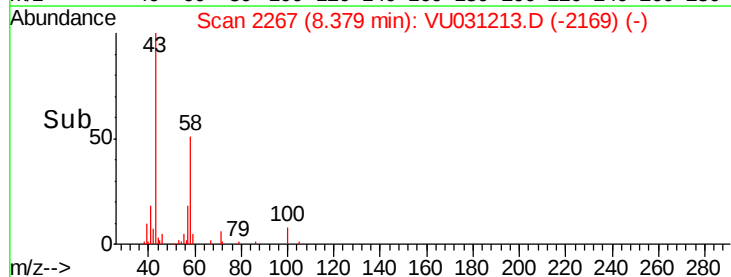
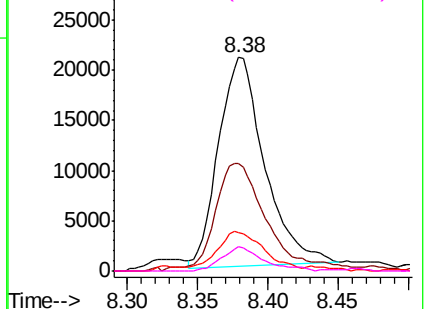


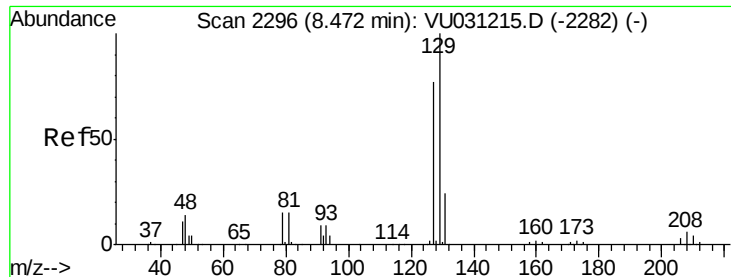
Abundance Ion 43.00 (42.70 to 43.70): VU0

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

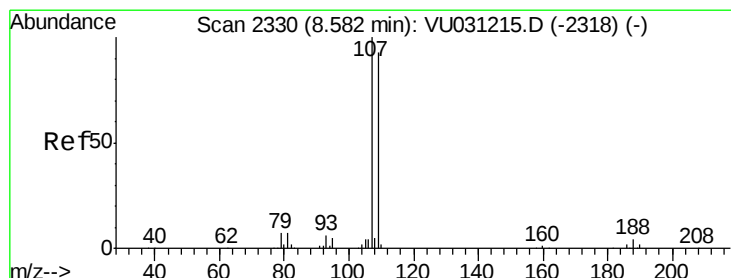
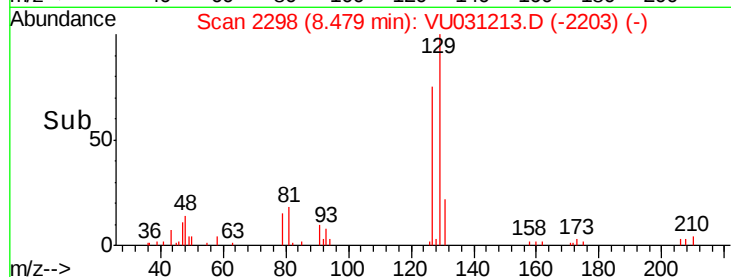
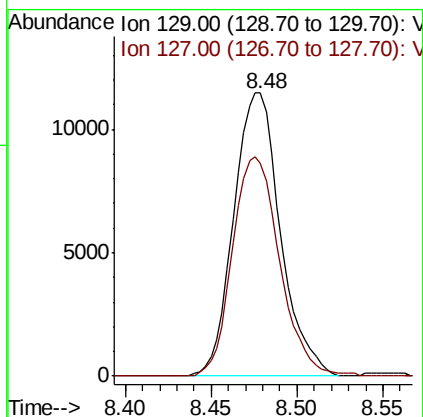
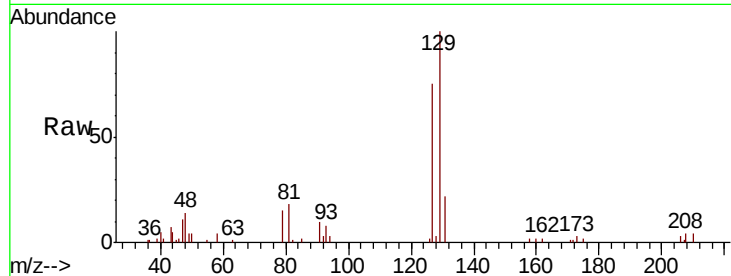




#49
 Dibromochloromethane
 Concen: 5.389 ug/L
 RT: 8.48 min Scan# 2298
 Delta R.T. 0.01 min
 Lab File: VU031213.D
 Acq: 16 Apr 2019 16:08

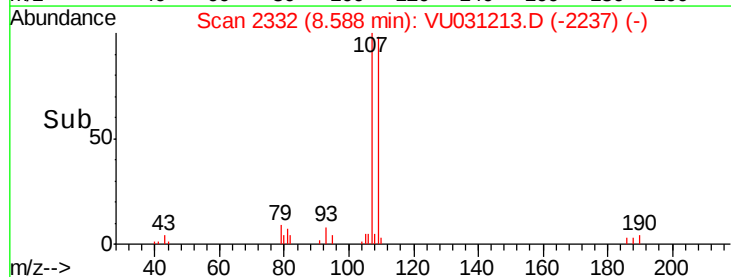
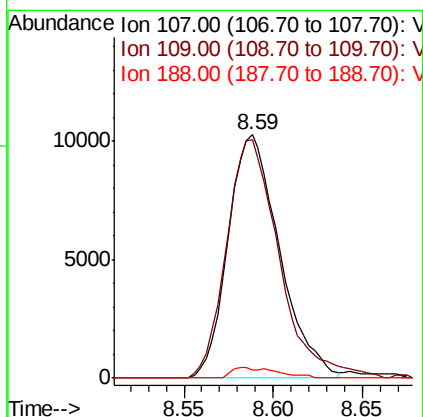
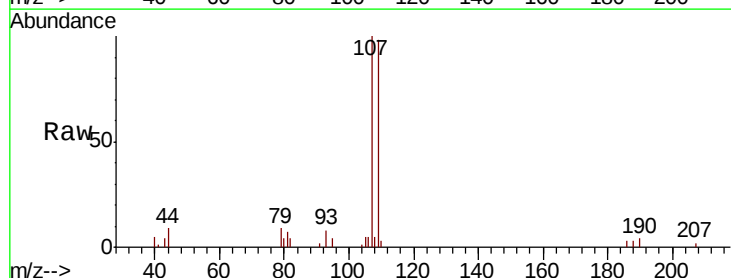
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00547

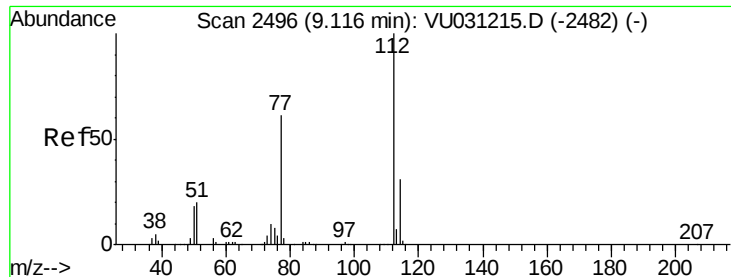
Tgt Ion:129 Resp: 21620
 Ion Ratio Lower Upper
 129 100
 127 75.4 53.6 99.6



#50
 1,2-Dibromoethane
 Concen: 5.072 ug/L
 RT: 8.59 min Scan# 2332
 Delta R.T. 0.01 min
 Lab File: VU031213.D
 Acq: 16 Apr 2019 16:08

Tgt Ion:107 Resp: 20562
 Ion Ratio Lower Upper
 107 100
 109 97.7 65.0 120.8
 188 3.5 2.9 4.3





#51

Chlorobenzene

Concen: 5.560 ug/L

RT: 9.12 min Scan# 2497

Delta R.T. 0.00 min

Lab File: VU031213.D

Acq: 16 Apr 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD00547

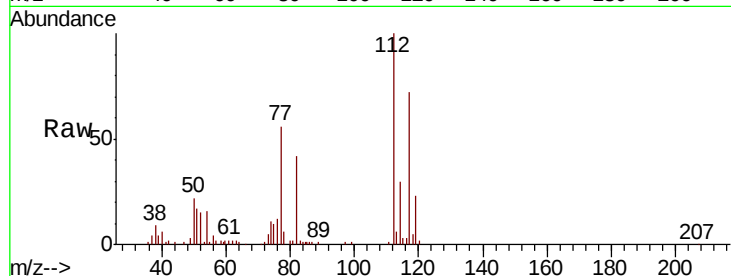
Tgt Ion: 112 Resp: 54607

Ion Ratio Lower Upper

112 100

114 29.7 21.6 40.0

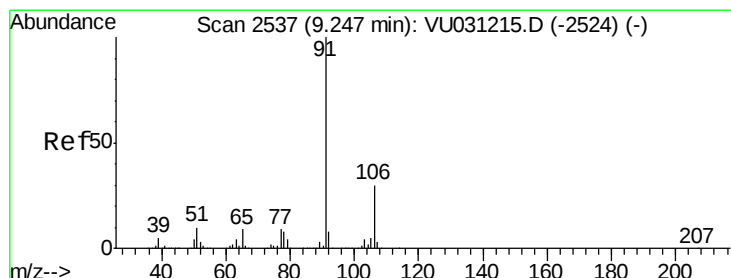
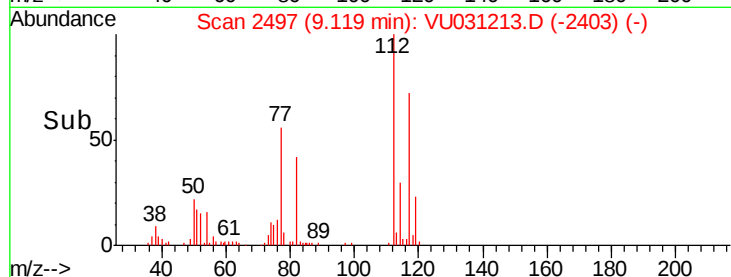
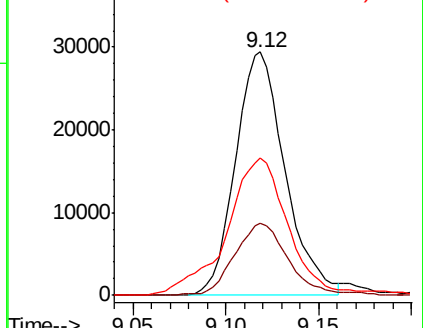
77 56.5 49.0 73.4



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: 5.055 ug/L

RT: 9.25 min Scan# 2538

Delta R.T. 0.00 min

Lab File: VU031213.D

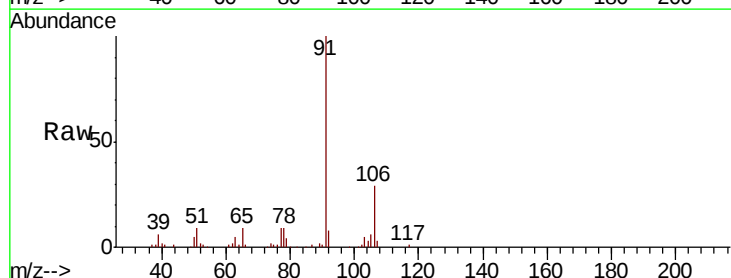
Acq: 16 Apr 2019 16:08

Tgt Ion: 91 Resp: 87611

Ion Ratio Lower Upper

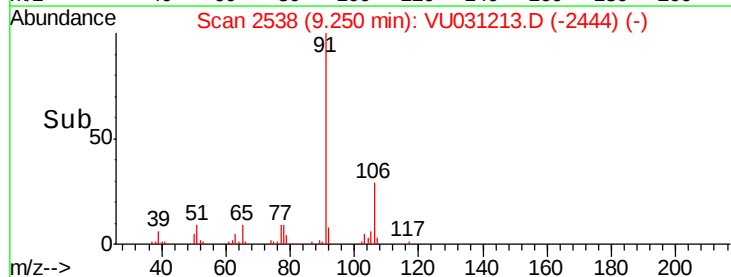
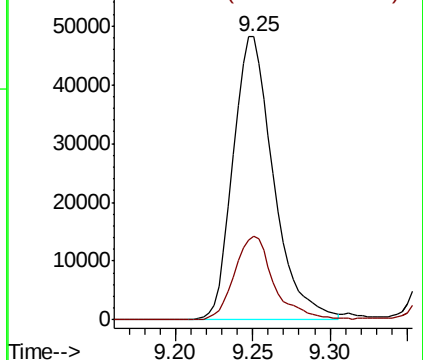
91 100

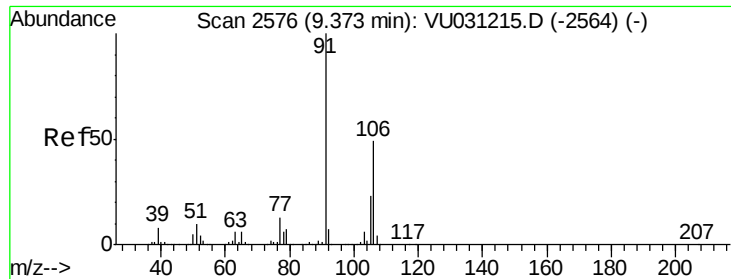
106 29.5 20.9 38.7



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 4.411 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU031213.D

Acq: 16 Apr 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

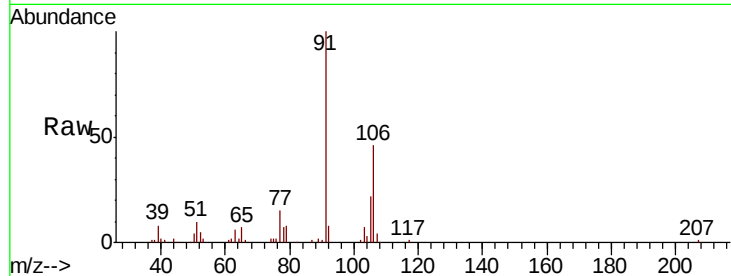
VSTD00547

Tgt Ion:106 Resp: 26825

Ion Ratio Lower Upper

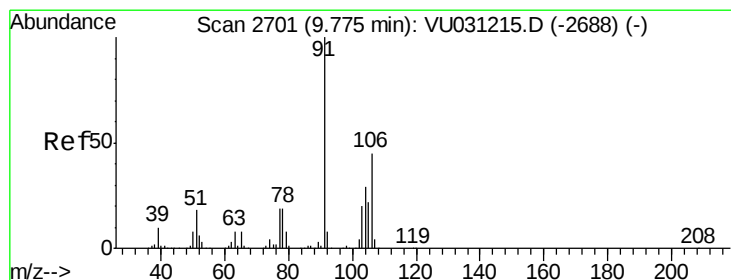
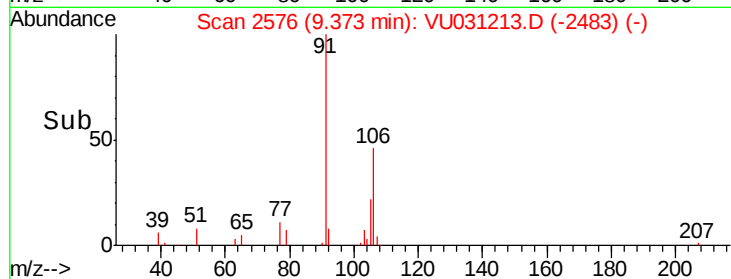
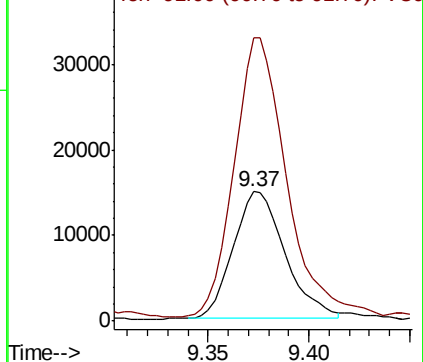
106 100

91 218.4 144.5 268.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 4.905 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU031213.D

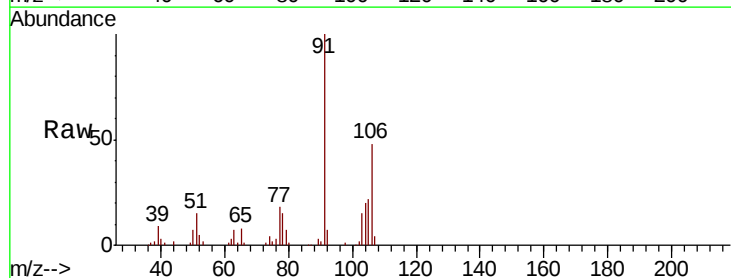
Acq: 16 Apr 2019 16:08

Tgt Ion:106 Resp: 29703

Ion Ratio Lower Upper

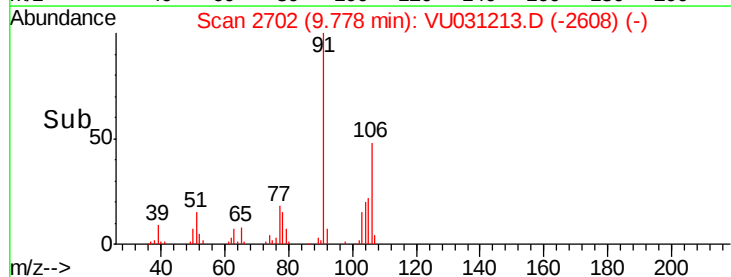
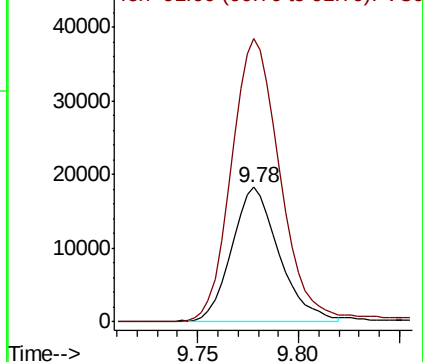
106 100

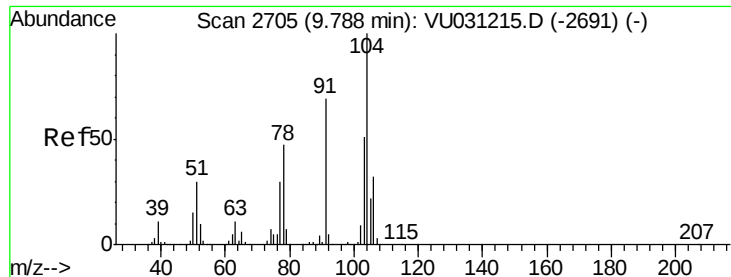
91 210.1 154.3 286.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#55

Styrene

Concen: 4.820 ug/L

RT: 9.79 min Scan# 2707

Delta R.T. 0.01 min

Lab File: VU031213.D

Acq: 16 Apr 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

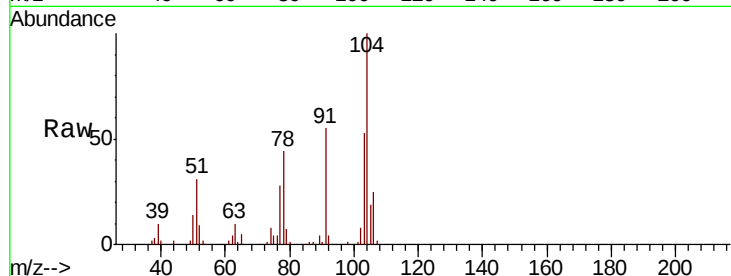
VSTD00547

Tgt Ion:104 Resp: 49827

Ion Ratio Lower Upper

104 100

78 44.1 32.8 61.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

9.79

30000

25000

20000

15000

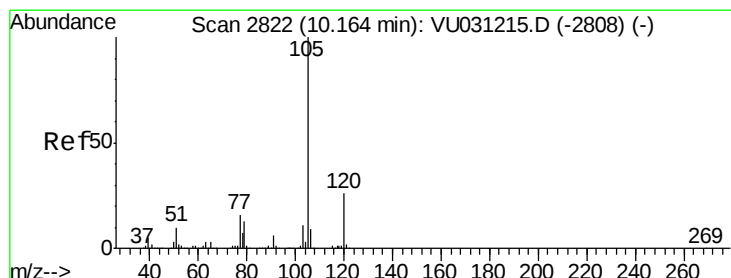
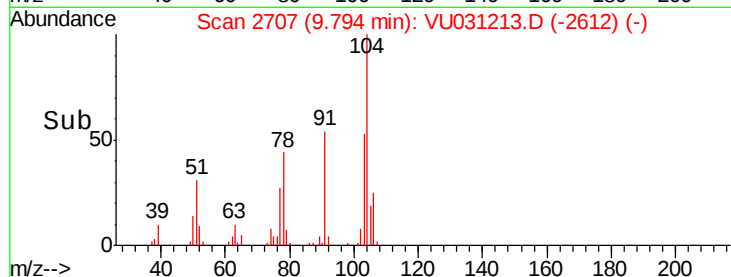
10000

5000

0

9.75 9.80 9.85

Time-->



#56

Isopropylbenzene

Concen: 4.936 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU031213.D

Acq: 16 Apr 2019 16:08

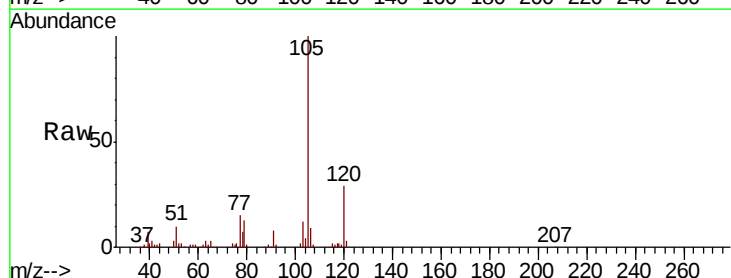
Tgt Ion:105 Resp: 78287

Ion Ratio Lower Upper

105 100

120 26.6 20.6 31.0

77 16.1 13.0 19.4



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): VU0

10.16

60000

50000

40000

30000

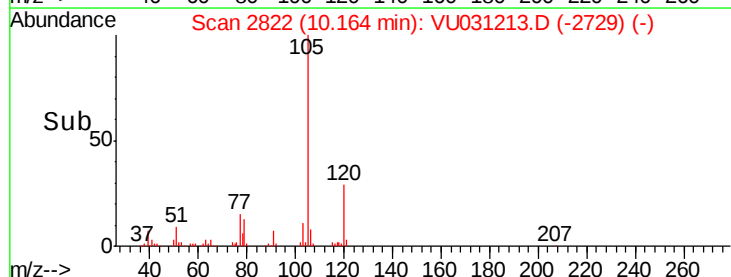
20000

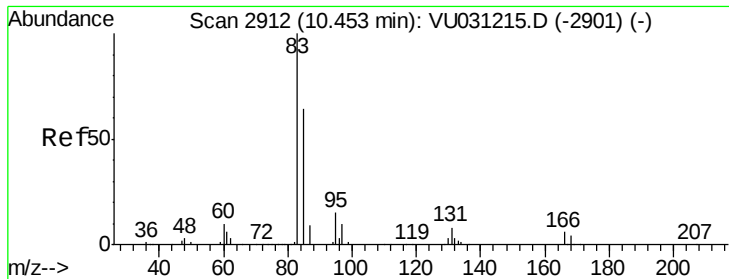
10000

0

10.10 10.20

Time-->

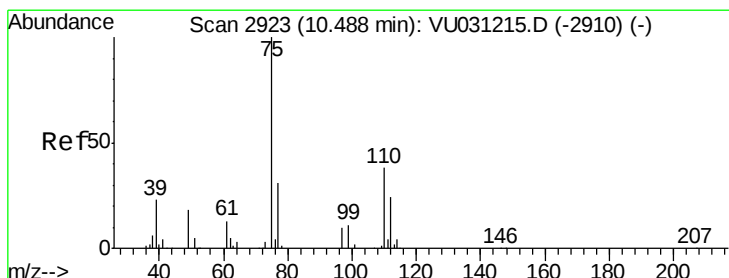
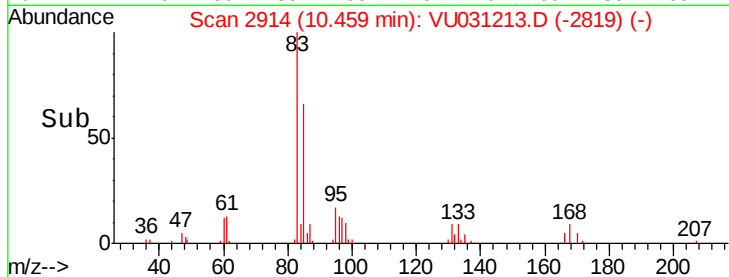
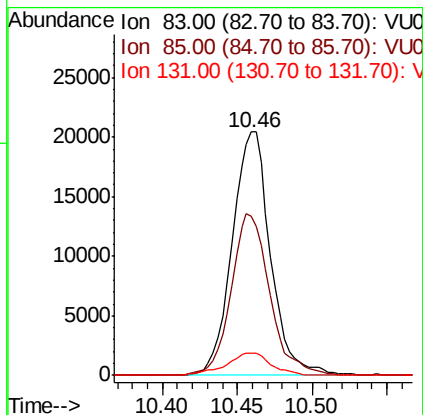
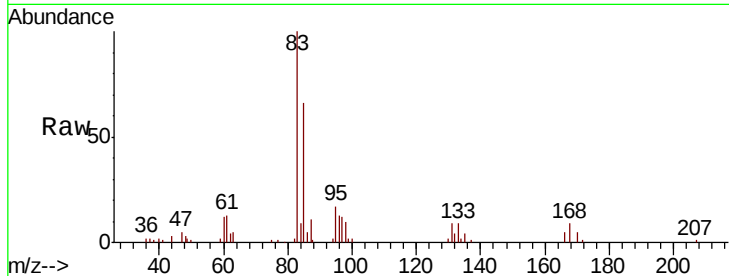




#58
 1,1,2,2-Tetrachloroethane
 Concen: 5.403 ug/L
 RT: 10.46 min Scan# 2914
 Delta R.T. 0.01 min
 Lab File: VU031213.D
 Acq: 16 Apr 2019 16:08

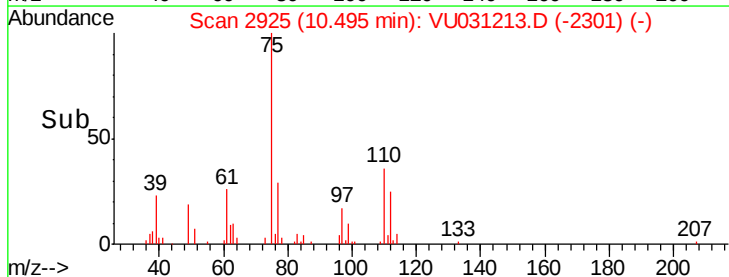
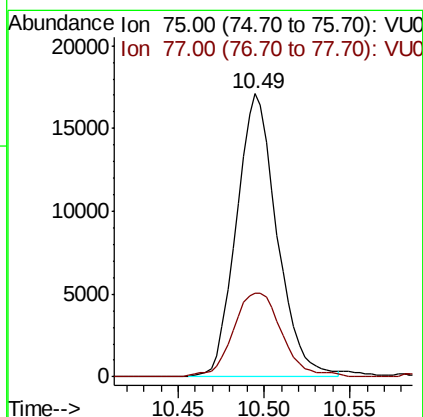
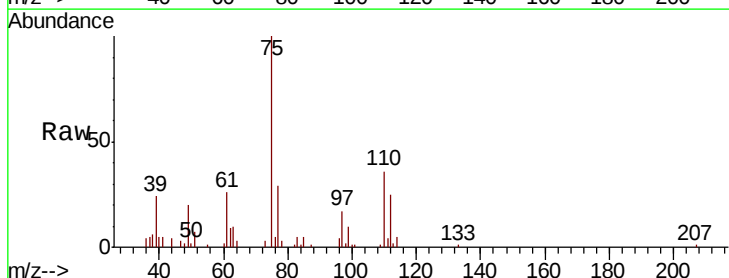
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00547

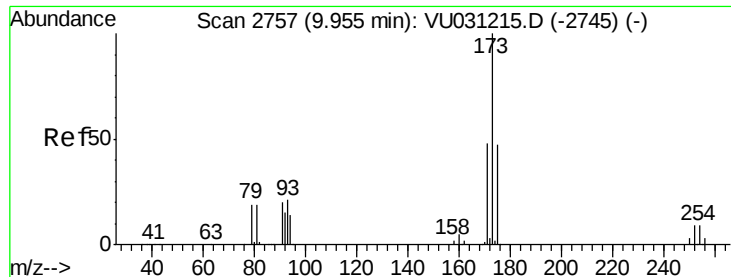
Tgt Ion: 83 Resp: 36356
 Ion Ratio Lower Upper
 83 100
 85 65.6 45.4 84.4
 131 9.2 7.4 11.0



#59
 1,2,3-Trichloropropane
 Concen: 5.379 ug/L
 RT: 10.49 min Scan# 2925
 Delta R.T. 0.01 min
 Lab File: VU031213.D
 Acq: 16 Apr 2019 16:08

Tgt Ion: 75 Resp: 28102
 Ion Ratio Lower Upper
 75 100
 77 35.6 25.4 38.2





#61

Bromoform

Concen: 5.644 ug/L

RT: 9.96 min Scan# 2759

Delta R.T. 0.01 min

Lab File: VU031213.D

Acq: 16 Apr 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD00547

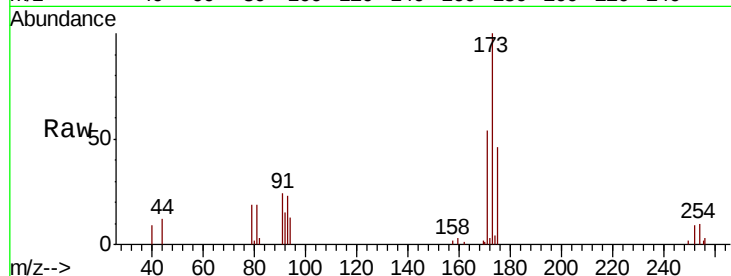
Tgt Ion:173 Resp: 15750

Ion Ratio Lower Upper

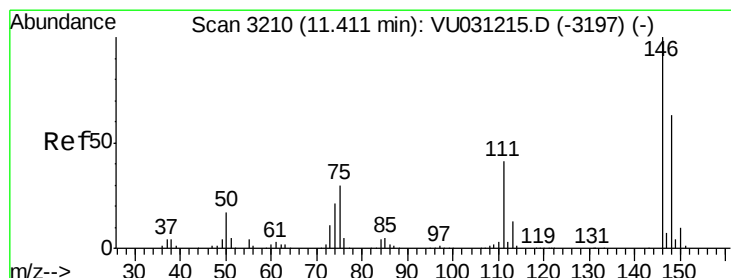
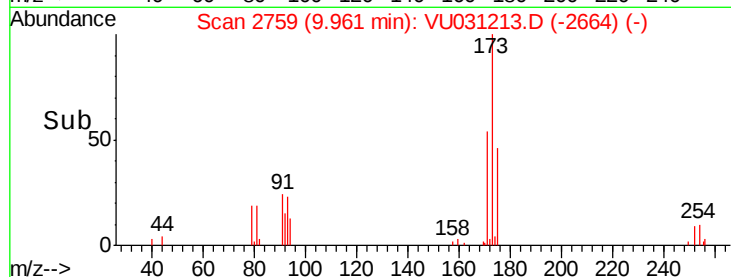
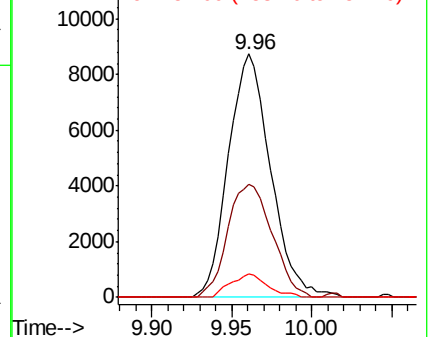
173 100

175 49.0 37.8 56.8

254 8.1 7.2 10.8



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#62

1,3-Dichlorobenzene

Concen: 5.985 ug/L

RT: 11.42 min Scan# 3212

Delta R.T. 0.01 min

Lab File: VU031213.D

Acq: 16 Apr 2019 16:08

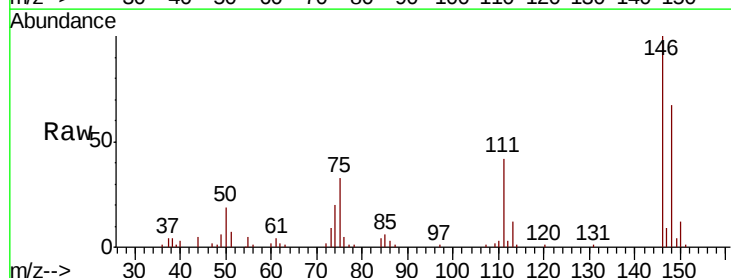
Tgt Ion:146 Resp: 39642

Ion Ratio Lower Upper

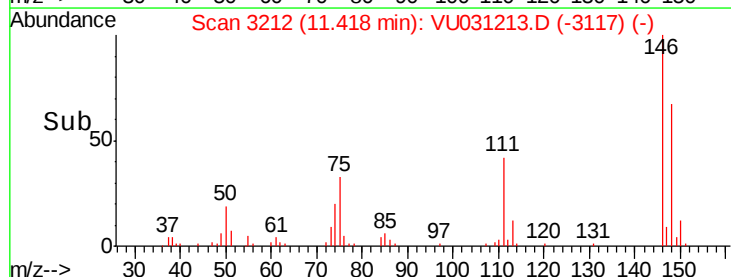
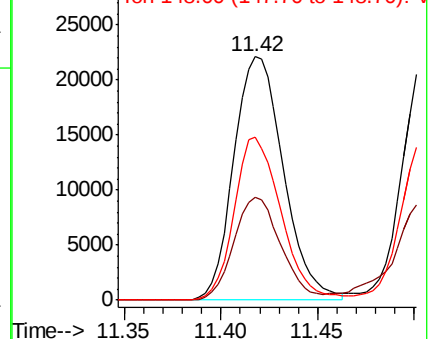
146 100

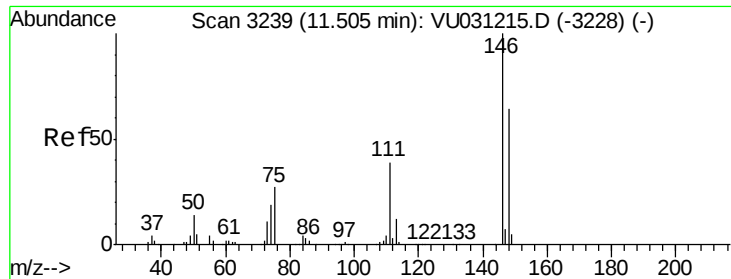
111 42.3 28.7 53.3

148 66.8 44.0 81.6



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

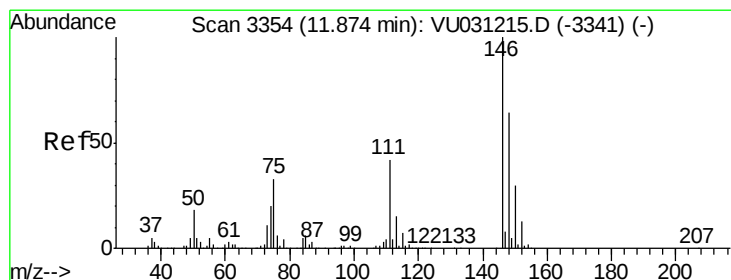
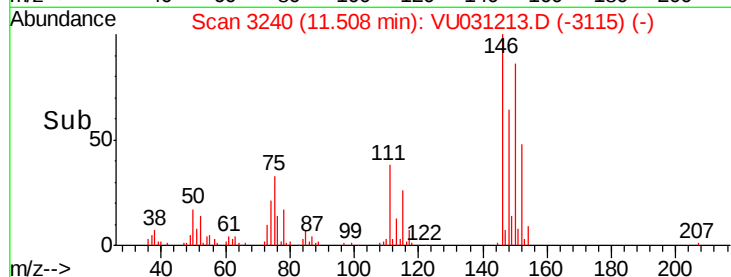
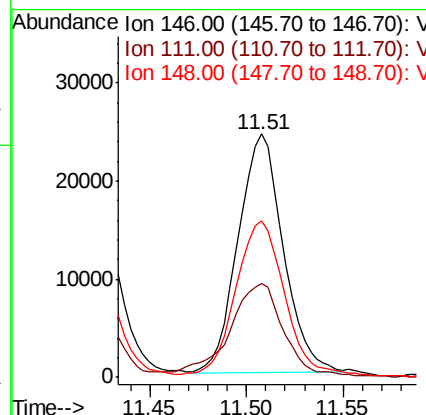
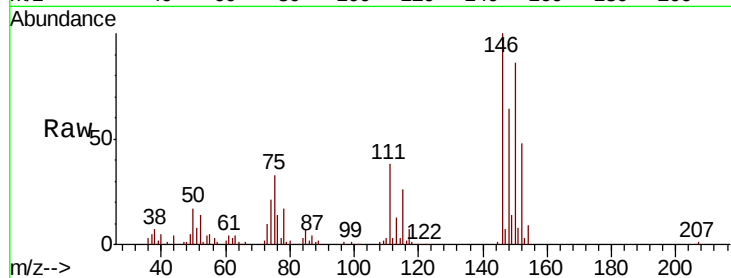




#63
 1,4-Dichlorobenzene
 Concen: 5.856 ug/L
 RT: 11.51 min Scan# 3240
 Delta R.T. 0.00 min
 Lab File: VU031213.D
 Acq: 16 Apr 2019 16:08

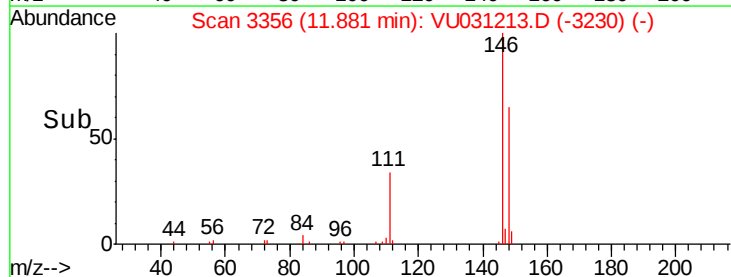
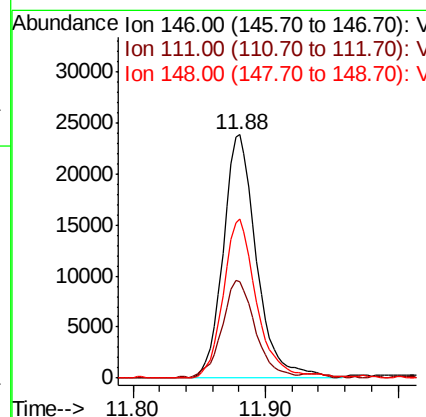
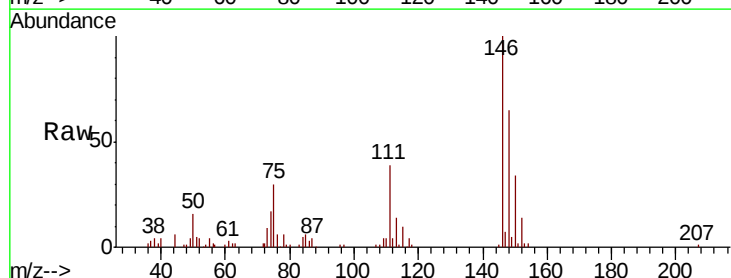
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00547

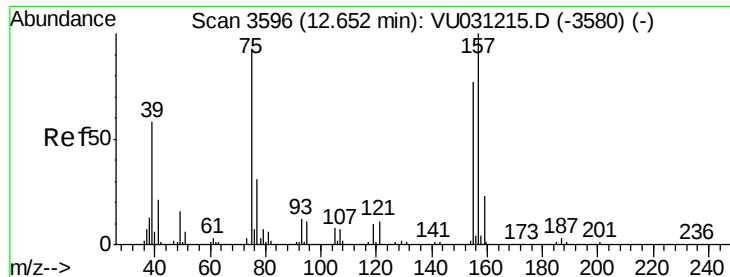
Tgt Ion:146 Resp: 39633
 Ion Ratio Lower Upper
 146 100
 111 38.4 27.4 50.8
 148 64.3 44.5 82.7



#65
 1,2-Dichlorobenzene
 Concen: 6.237 ug/L
 RT: 11.88 min Scan# 3356
 Delta R.T. 0.01 min
 Lab File: VU031213.D
 Acq: 16 Apr 2019 16:08

Tgt Ion:146 Resp: 41719
 Ion Ratio Lower Upper
 146 100
 111 39.3 33.4 50.2
 148 65.1 51.3 76.9

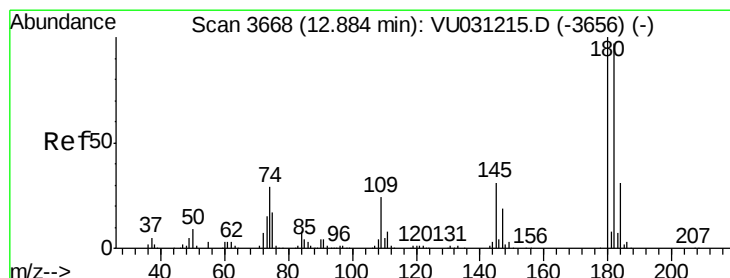
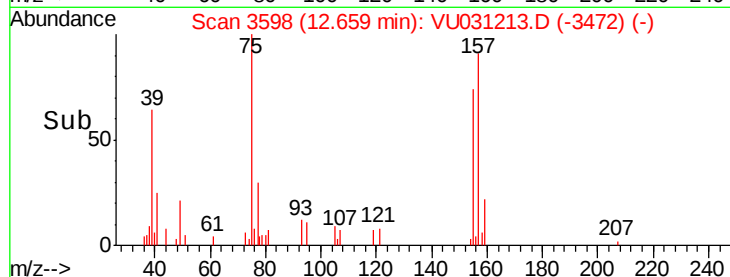
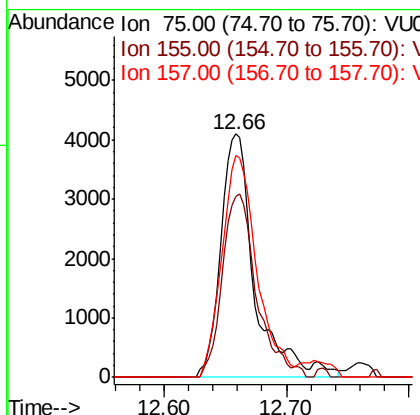
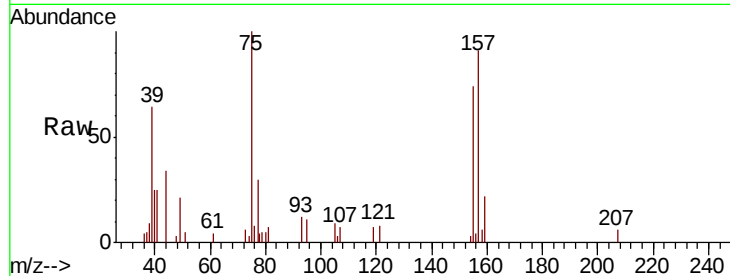




#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.787 ug/L
 RT: 12.66 min Scan# 3598
 Delta R.T. 0.01 min
 Lab File: VU031213.D
 Acq: 16 Apr 2019 16:08

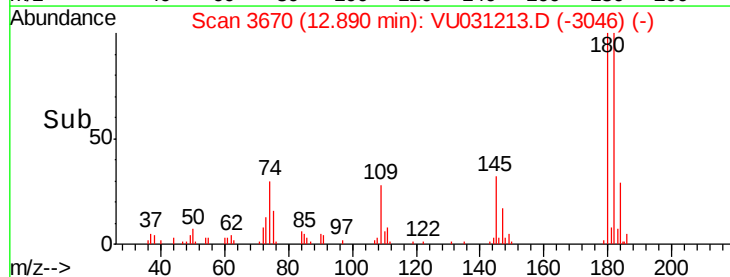
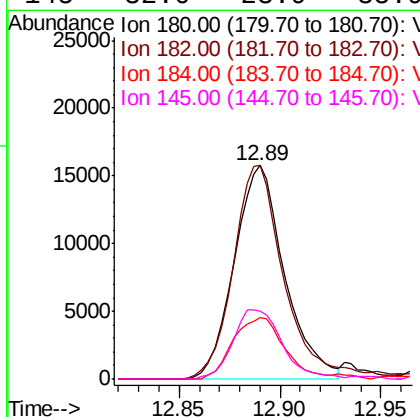
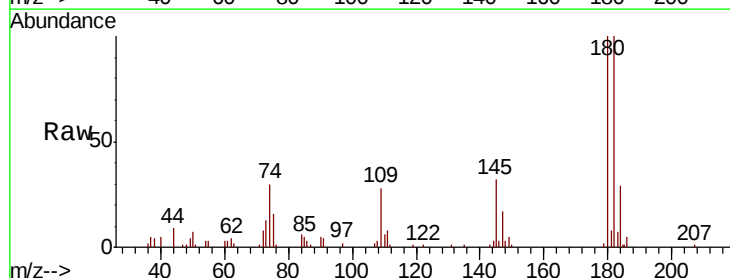
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00547

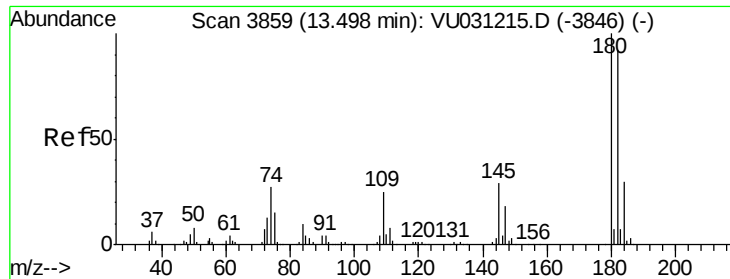
Tgt Ion: 75 Resp: 8017
 Ion Ratio Lower Upper
 75 100
 155 74.1 66.7 100.1
 157 91.3 86.5 129.7



#67
 1,3,5-Trichlorobenzene
 Concen: 5.623 ug/L
 RT: 12.89 min Scan# 3670
 Delta R.T. 0.01 min
 Lab File: VU031213.D
 Acq: 16 Apr 2019 16:08

Tgt Ion: 180 Resp: 27416
 Ion Ratio Lower Upper
 180 100
 182 98.9 76.7 115.1
 184 29.2 24.2 36.4
 145 32.0 23.9 35.9

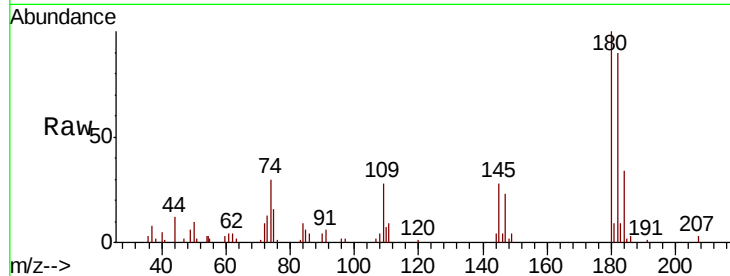




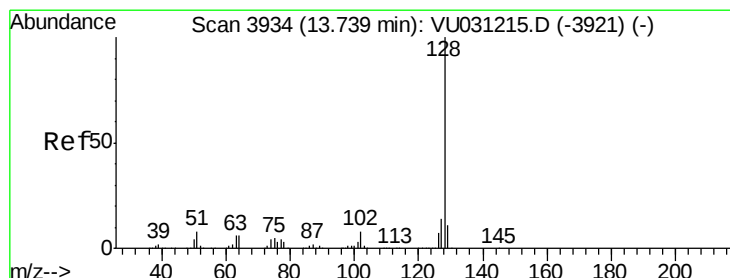
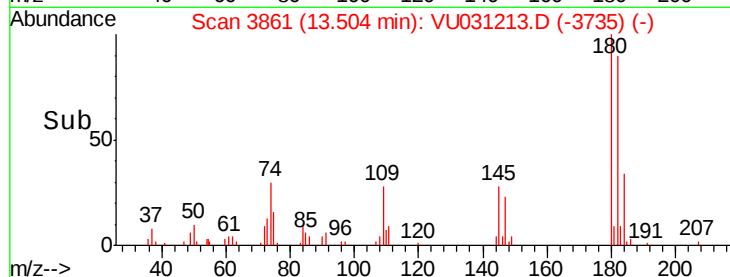
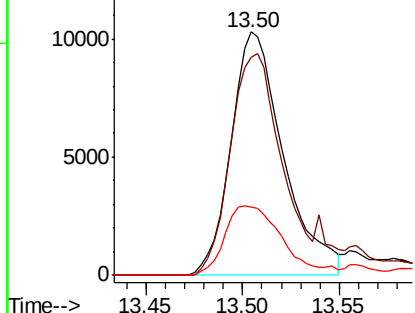
#68
 1,2,4-trichlorobenzene
 Concen: 4.715 ug/L
 RT: 13.50 min Scan# 3861
 Delta R.T. 0.01 min
 Lab File: VU031213.D
 Acq: 16 Apr 2019 16:08

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00547

Tgt Ion:180 Resp: 19394
 Ion Ratio Lower Upper
 180 100
 182 88.4 75.5 113.3
 145 30.7 23.1 34.7

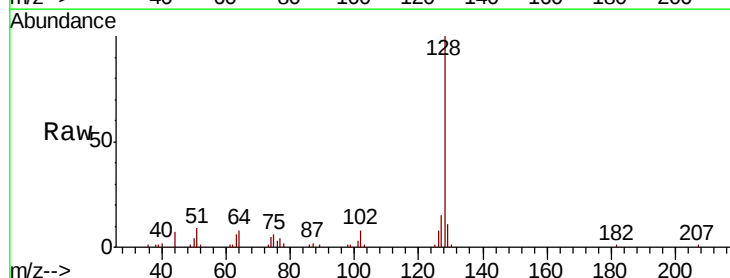


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

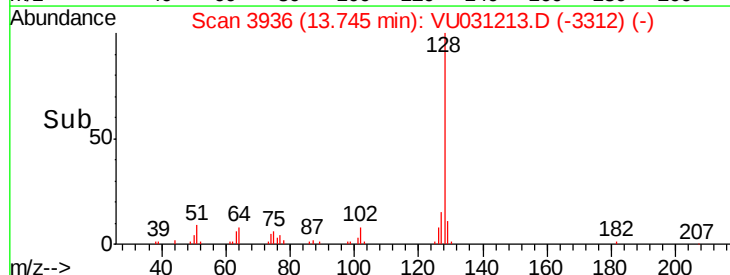
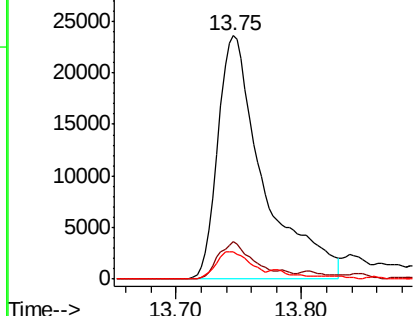


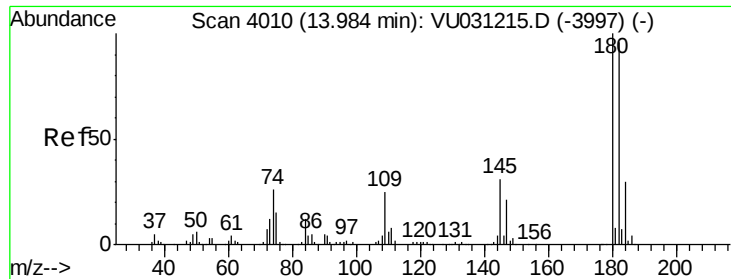
#69
 Naphthalene
 Concen: 4.483 ug/L
 RT: 13.75 min Scan# 3936
 Delta R.T. 0.01 min
 Lab File: VU031213.D
 Acq: 16 Apr 2019 16:08

Tgt Ion:128 Resp: 59516
 Ion Ratio Lower Upper
 128 100
 127 11.3 10.3 15.5
 129 8.5 8.2 12.2



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

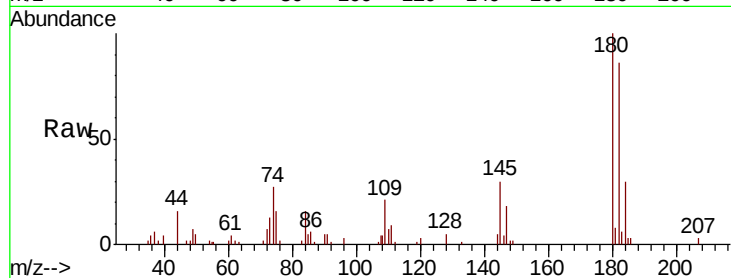




#70
 1,2,3-Trichlorobenzene
 Concen: 5.369 ug/L
 RT: 13.99 min Scan# 4011
 Delta R.T. 0.00 min
 Lab File: VU031213.D
 Acq: 16 Apr 2019 16:08

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00547

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.7	78.2	117.4
145	27.7	25.0	37.6



Abundance Ion 180.00 (179.70 to 180.70): V
 15000 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

