

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\U120718\
 Data File : VU028538.D
 Acq On : 07 Dec 2018 18:05
 Operator : MD/SY
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

Quant Time: Dec 07 22:58:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM120718WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 07 22:52:51 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	159036	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	153254	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	76301	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	72150	50.49	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	100.98%
7) Chloroethane-d5	1.68	69	54774	50.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.08%
11) 1,1-Dichloroethene-d2	2.27	63	128516	50.72	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.44%
21) 2-Butanone-d5	4.17	46	122689	105.54	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.54%
24) Chloroform-d	4.65	84	121890	53.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.36%
26) 1,2-Dichloroethane-d4	5.31	65	80389	51.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.32%
32) Benzene-d6	5.34	84	245747	51.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.40%
36) 1,2-Dichloropropane-d6	6.33	67	90473	52.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.56%
41) Toluene-d8	7.56	98	220404	51.16	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.32%
43) trans-1,3-Dichloropropene-	7.85	79	41166	53.03	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	106.06%
47) 2-Hexanone-d5	8.31	63	86750	105.13	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.13%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	115357	52.60	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	105.20%
64) 1,2-Dichlorobenzene-d4	11.86	152	80248	52.64	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	105.28%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	64997	46.941 ug/L	97
3) Chloromethane	1.33	50	102098	50.562 ug/L	99
5) Vinyl chloride	1.40	62	86217	49.917 ug/L	99
6) Bromomethane	1.63	94	28185	57.252 ug/L	98
8) Chloroethane	1.70	64	50179	51.619 ug/L	99
9) Trichlorofluoromethane	1.89	101	92413	52.122 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	55754	53.774 ug/L	98
12) 1,1-Dichloroethene	2.28	96	52311	52.591 ug/L	95
13) Acetone	2.32	43	91477	75.609 ug/L	99
14) Carbon disulfide	2.48	76	188109	50.131 ug/L	100
15) Methyl Acetate	2.61	43	91263	51.371 ug/L	100
16) Methylene chloride	2.70	84	68324	53.096 ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	58682	51.929 ug/L	98
18) Methyl tert-butyl Ether	3.00	73	208158	53.112 ug/L	99
19) 1,1-Dichloroethane	3.44	63	128768	52.690 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	69613	53.408 ug/L	99
22) 2-Butanone	4.26	43	131242	87.833 ug/L	99

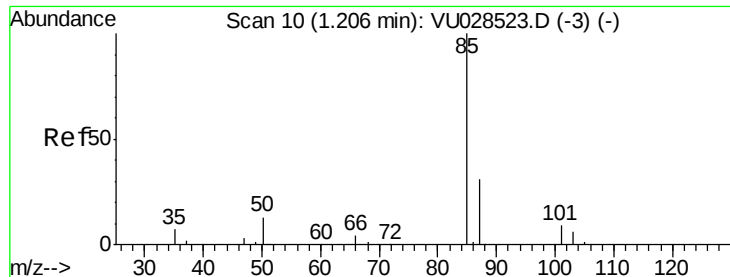
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU120718\
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 Acq On : 07 Dec 2018 18:05
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 Quant Title : VOC Analysis
 QLast Update : Fri Dec 07 22:52:51 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	30327	53.078	ug/L	95
25) Chloroform	4.67	83	119404	53.462	ug/L	100
27) 1,2-Dichloroethane	5.40	62	98296	53.144	ug/L	100
29) Cyclohexane	5.00	56	126759	51.595	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	94195	52.370	ug/L	98
31) Carbon tetrachloride	5.13	117	75127	51.931	ug/L	98
33) Benzene	5.39	78	273997	52.480	ug/L	100
34) Trichloroethene	6.18	95	64822	51.640	ug/L	96
35) Methylcyclohexane	6.41	83	113288	52.180	ug/L	99
37) 1,2-Dichloropropane	6.43	63	82663	53.415	ug/L	100
38) Bromodichloromethane	6.76	83	89484	52.225	ug/L	96
39) cis-1,3-Dichloropropene	7.27	75	117815	53.572	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	247083	101.768	ug/L	100
42) Toluene	7.64	91	276747	52.193	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	108668	53.925	ug/L	97
45) 1,1,2-Trichloroethane	8.06	97	64147	53.115	ug/L	98
46) Tetrachloroethene	8.23	164	46457	52.817	ug/L	98
48) 2-Hexanone	8.36	43	190546	93.562	ug/L	99
49) Dibromochloromethane	8.48	129	65045	52.922	ug/L	95
50) 1,2-Dibromoethane	8.58	107	67987	52.696	ug/L	99
51) Chlorobenzene	9.12	112	169640	53.572	ug/L	97
52) Ethylbenzene	9.25	91	307676	52.516	ug/L	100
53) m,p-Xylene	9.37	106	111716	53.321	ug/L	99
54) o-xylene	9.78	106	110062	53.135	ug/L	96
55) Styrene	9.79	104	191508	53.935	ug/L	99
56) Isopropylbenzene	10.16	105	290017	53.015	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	117049	52.312	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	91568	52.032	ug/L	100
61) Bromoform	9.96	173	45378	48.803	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	127376	51.620	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	129969	52.251	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	128166	52.223	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.66	75	23534	48.391	ug/L	98
67) 1,3,5-Trichlorobenzene	12.89	180	97376	53.437	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	91209	53.772	ug/L	98
69) Naphthalene	13.74	128	302111	51.686	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	90676	53.208	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 46.941 ug/L

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

Instrument :

MSVOA_U

ClientSampleId :

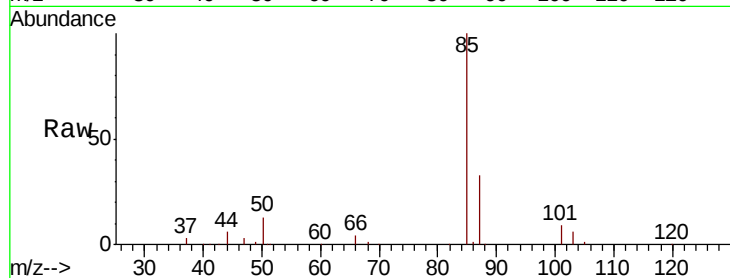
VSTD05060

Tgt Ion: 85 Resp: 64997

Ion Ratio Lower Upper

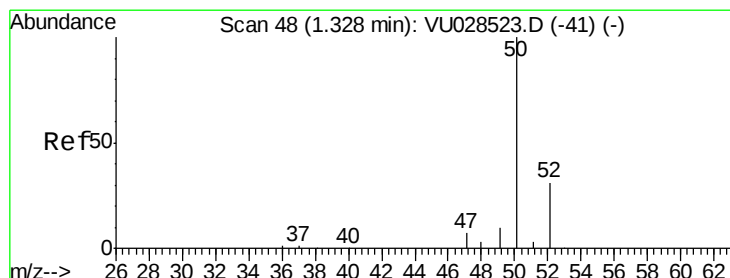
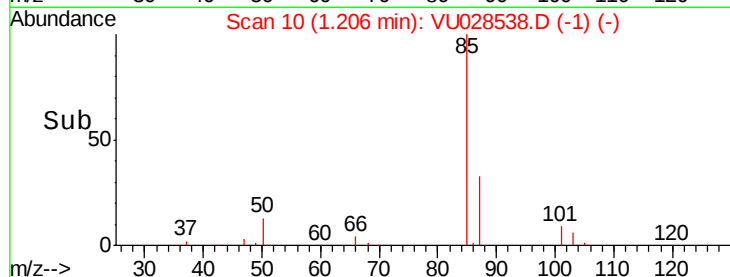
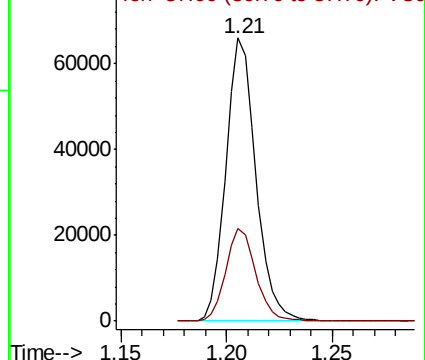
85 100

87 32.7 25.0 37.4



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 50.562 ug/L

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028538.D

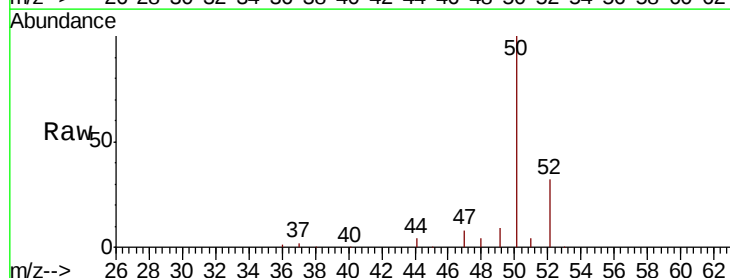
Acq: 07 Dec 2018 18:05

Tgt Ion: 50 Resp: 102098

Ion Ratio Lower Upper

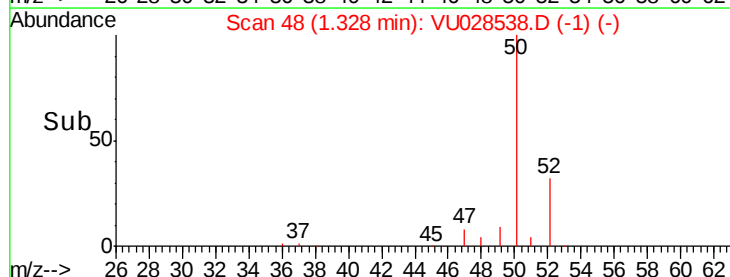
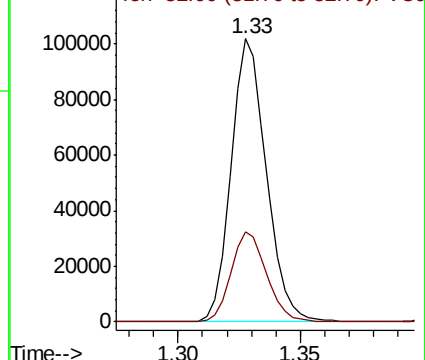
50 100

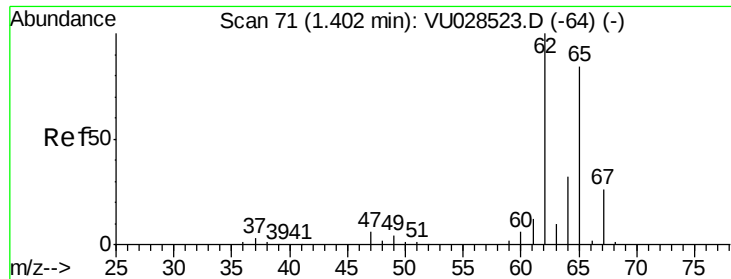
52 32.0 22.0 41.0



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 49.917 ug/L

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

Instrument :

MSVOA_U

ClientSampleId :

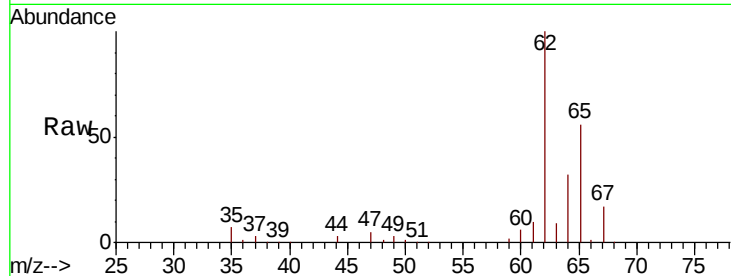
VSTD05060

Tgt Ion: 62 Resp: 86217

Ion Ratio Lower Upper

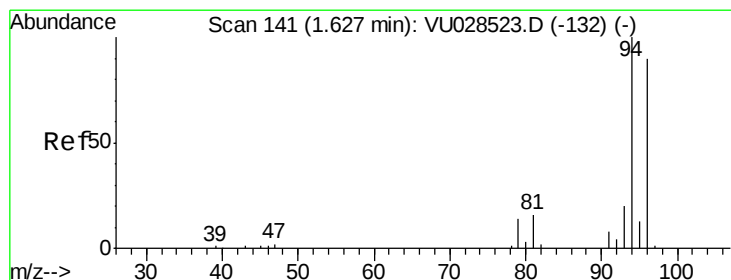
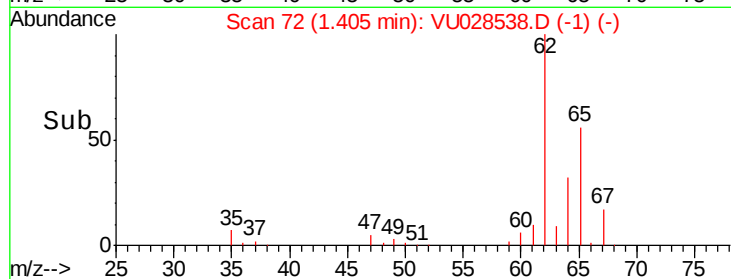
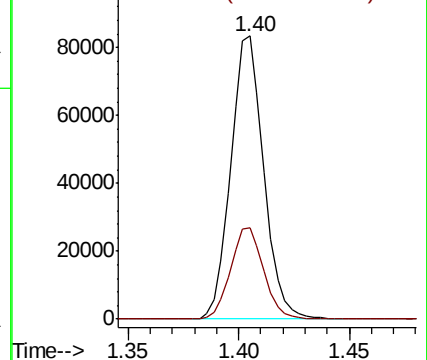
62 100

64 32.4 22.3 41.5



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 57.252 ug/L

RT: 1.63 min Scan# 141

Delta R.T. -0.00 min

Lab File: VU028538.D

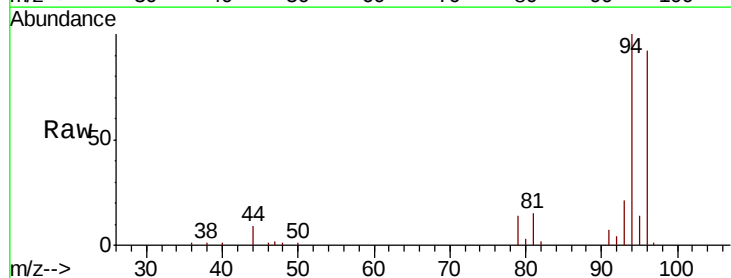
Acq: 07 Dec 2018 18:05

Tgt Ion: 94 Resp: 28185

Ion Ratio Lower Upper

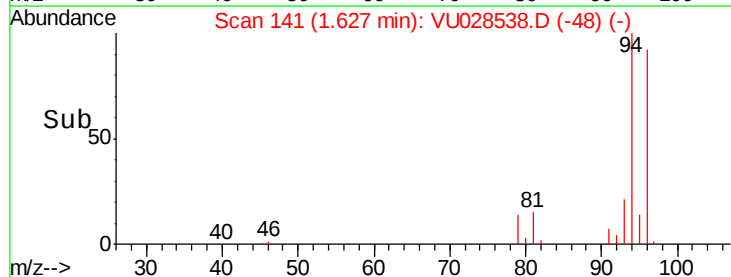
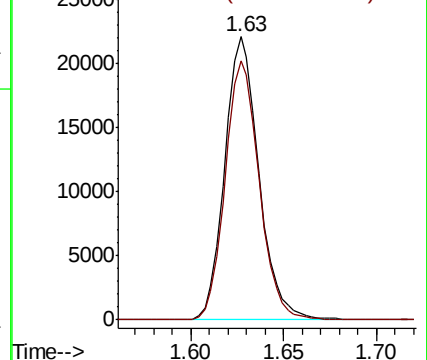
94 100

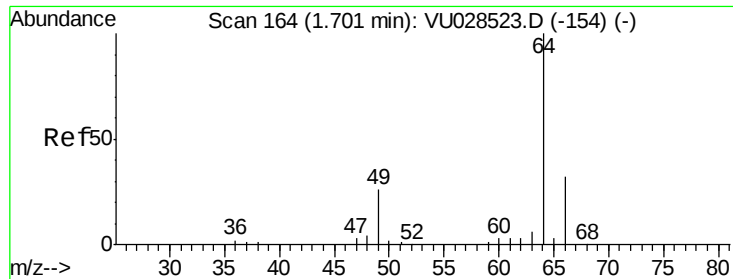
96 91.7 62.9 116.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 51.619 ug/L

RT: 1.70 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

Instrument :

MSVOA_U

ClientSampleId :

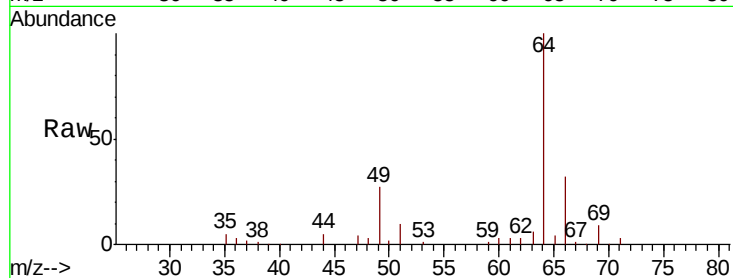
VSTD05060

Tgt Ion: 64 Resp: 50179

Ion Ratio Lower Upper

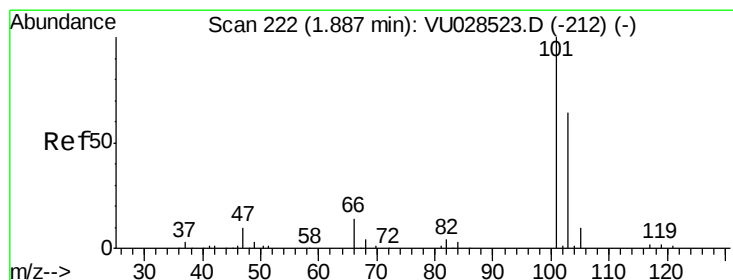
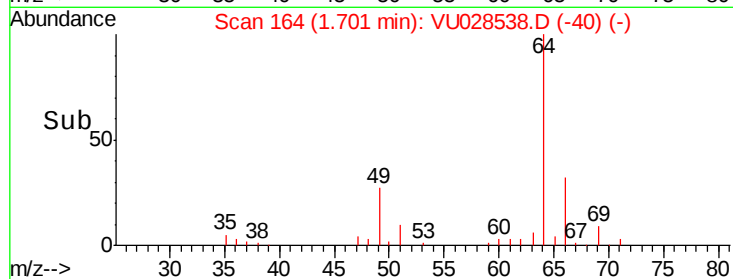
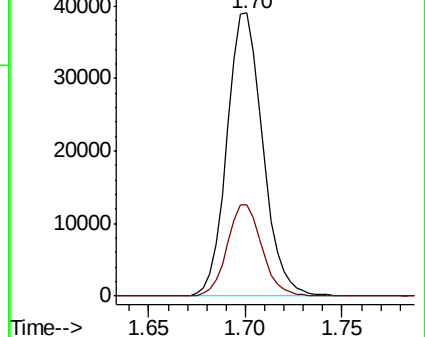
64 100

66 32.5 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VU028523.D (-154) (-)

Ion 66.00 (65.70 to 66.70): VU028523.D (-154) (-)



#9

Trichlorofluoromethane

Concen: 52.122 ug/L

RT: 1.89 min Scan# 222

Delta R.T. -0.00 min

Lab File: VU028538.D

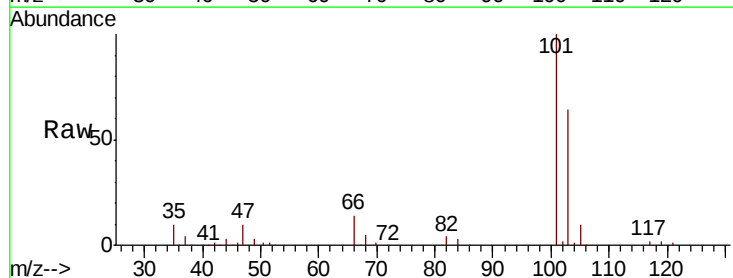
Acq: 07 Dec 2018 18:05

Tgt Ion: 101 Resp: 92413

Ion Ratio Lower Upper

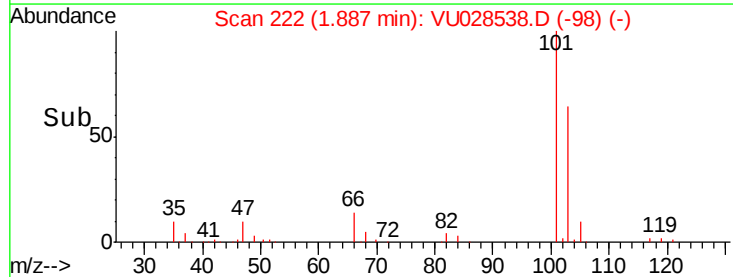
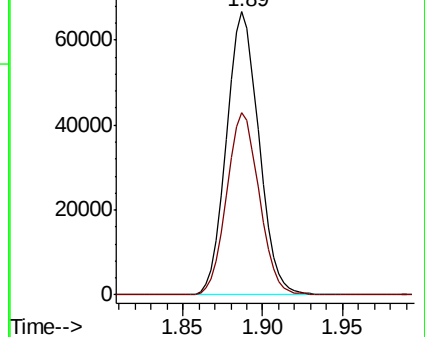
101 100

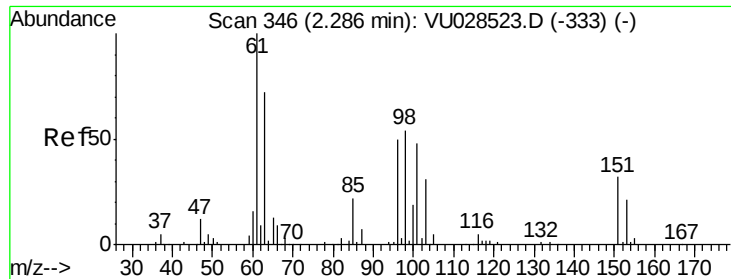
103 64.4 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): VU028523.D (-212) (-)

Ion 103.00 (102.70 to 103.70): VU028523.D (-212) (-)





#10

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

Concen: 53.774 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

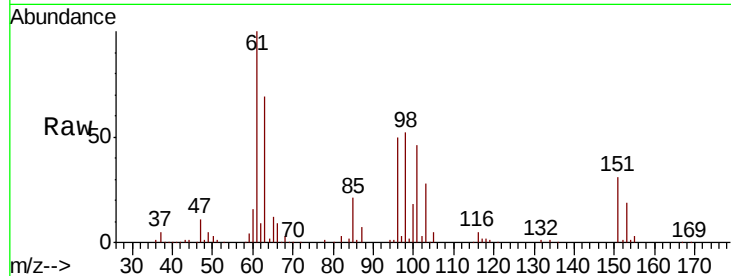
Tgt Ion:101 Resp: 55754

Ion Ratio Lower Upper

101 100

85 45.0 36.8 55.2

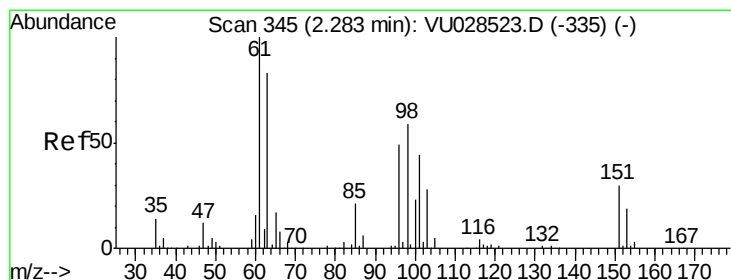
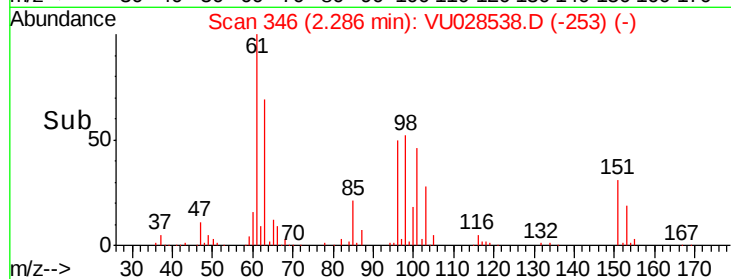
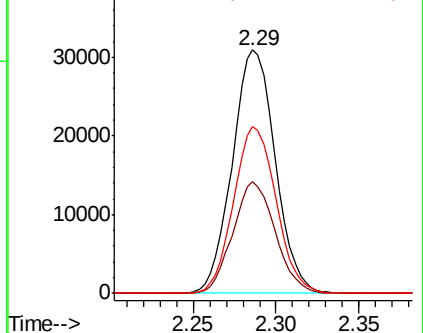
151 67.8 55.8 83.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 52.591 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

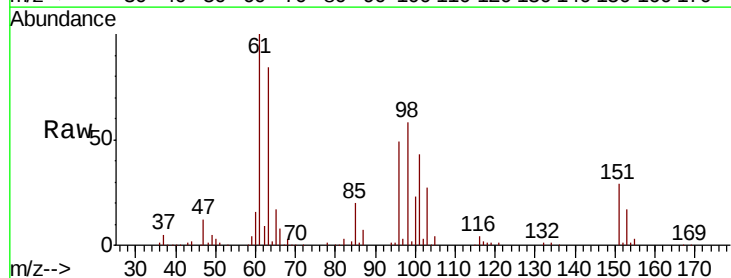
Tgt Ion: 96 Resp: 52311

Ion Ratio Lower Upper

96 100

61 204.2 143.2 266.0

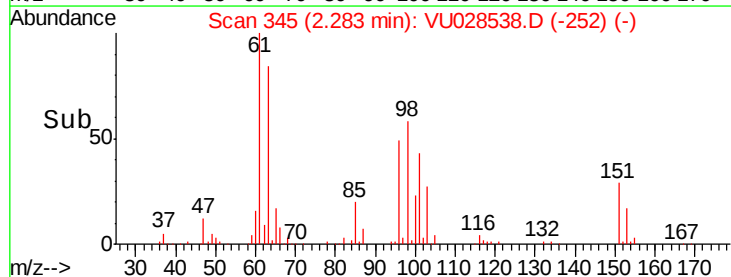
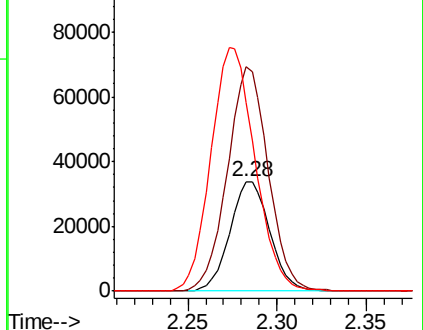
63 172.4 130.1 241.7

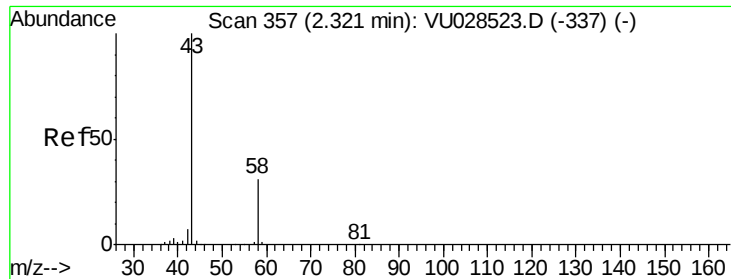


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 75.609 ug/L

RT: 2.32 min Scan# 356

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

Instrument :

MSVOA_U

ClientSampleId :

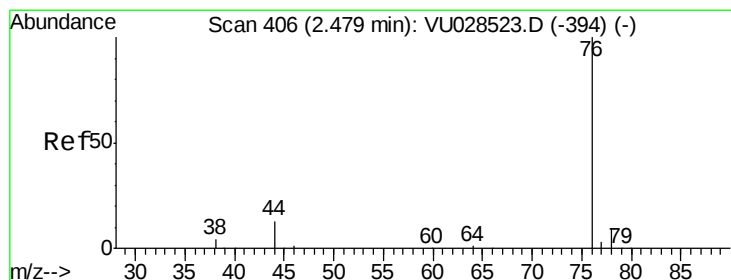
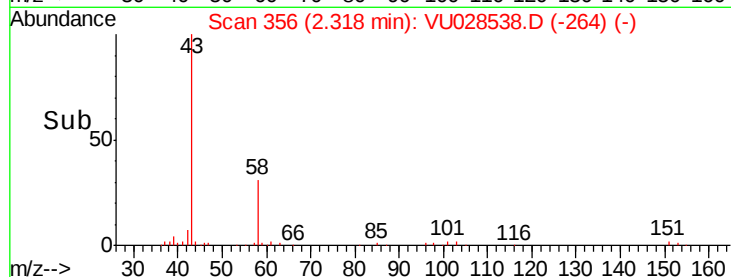
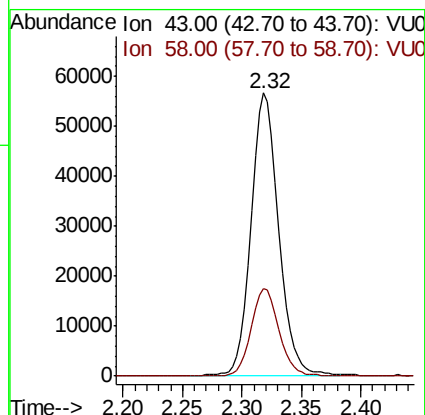
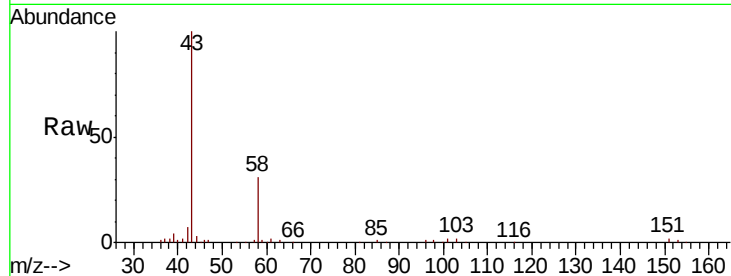
VSTD05060

Tgt Ion: 43 Resp: 91477

Ion Ratio Lower Upper

43 100

58 30.4 0.0 62.0



#14

Carbon disulfide

Concen: 50.131 ug/L

RT: 2.48 min Scan# 406

Delta R.T. -0.00 min

Lab File: VU028538.D

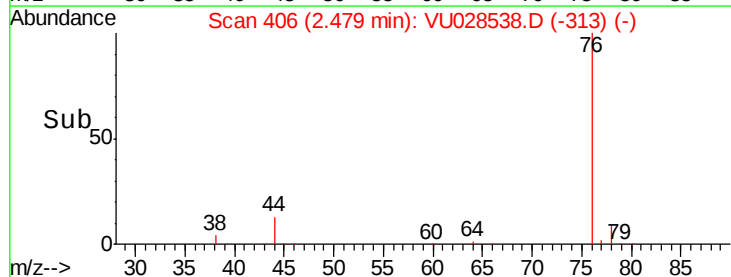
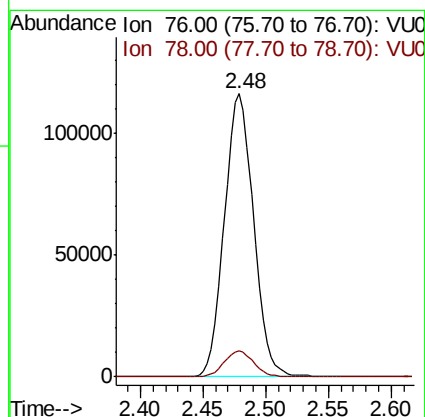
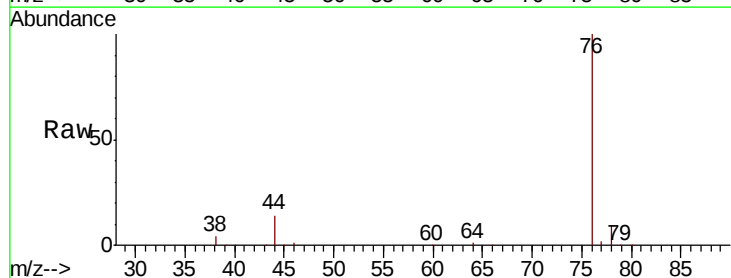
Acq: 07 Dec 2018 18:05

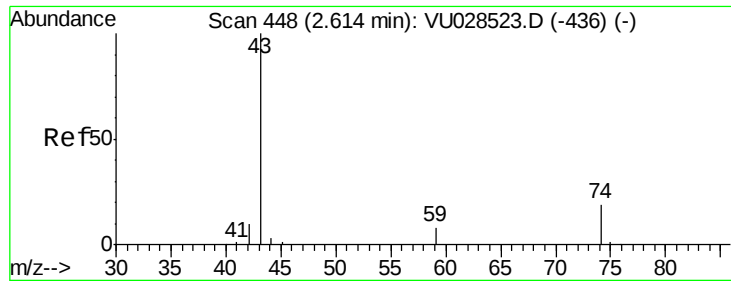
Tgt Ion: 76 Resp: 188109

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9





#15

Methyl Acetate

Concen: 51.371 ug/L

RT: 2.61 min Scan# 448

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

Instrument :

MSVOA_U

ClientSampleId :

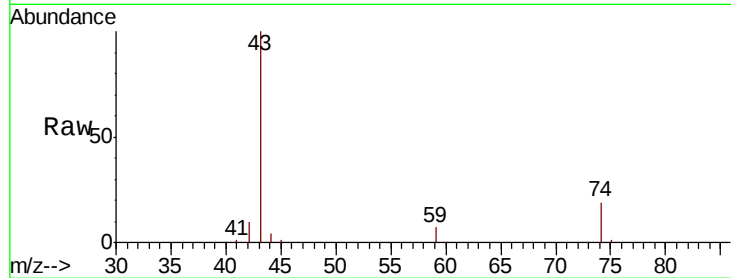
VSTD05060

Tgt Ion: 43 Resp: 91263

Ion Ratio Lower Upper

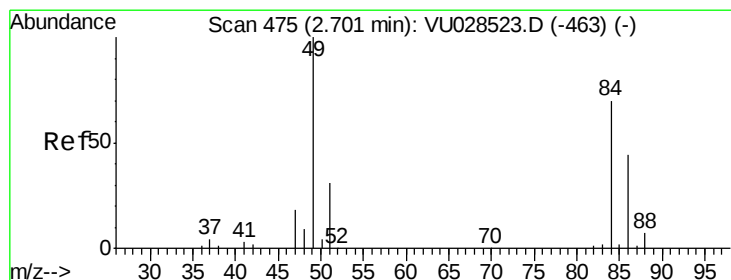
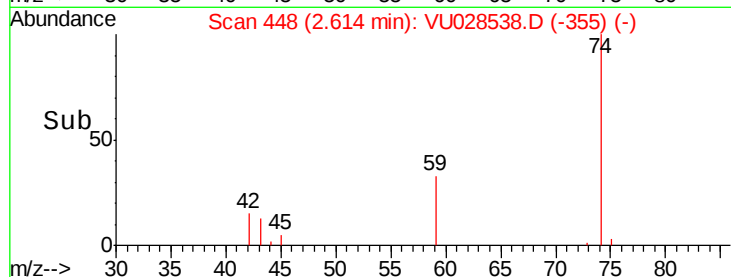
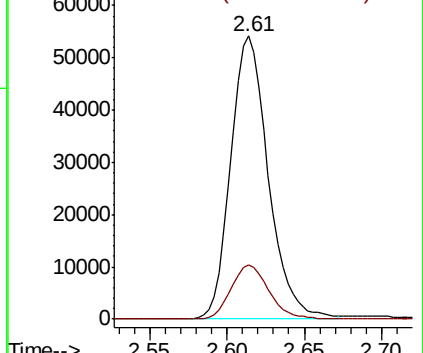
43 100

74 19.2 15.4 23.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 53.096 ug/L

RT: 2.70 min Scan# 475

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

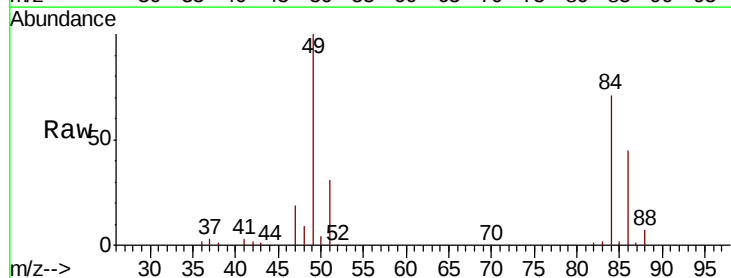
Tgt Ion: 84 Resp: 68324

Ion Ratio Lower Upper

84 100

86 62.9 44.3 82.3

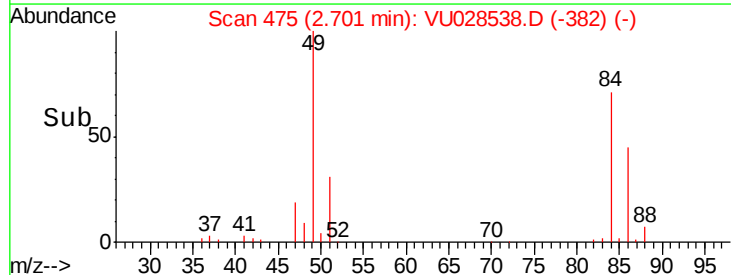
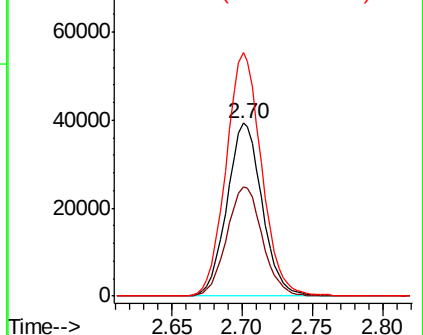
49 140.7 100.0 185.6

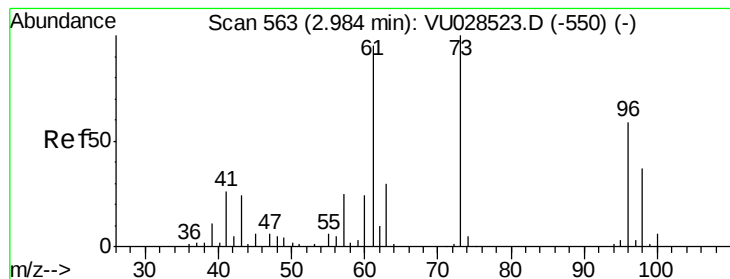


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 51.929 ug/L

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

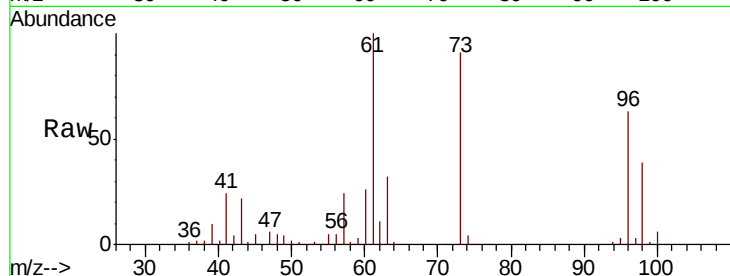
Tgt Ion: 96 Resp: 58682

Ion Ratio Lower Upper

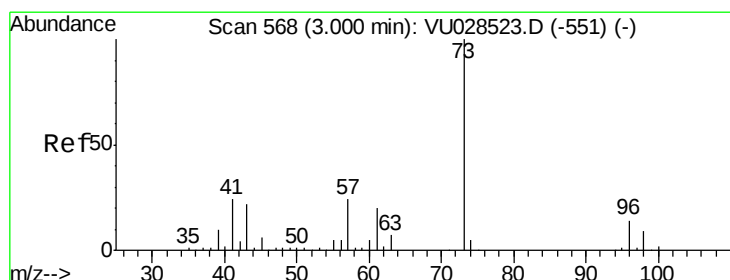
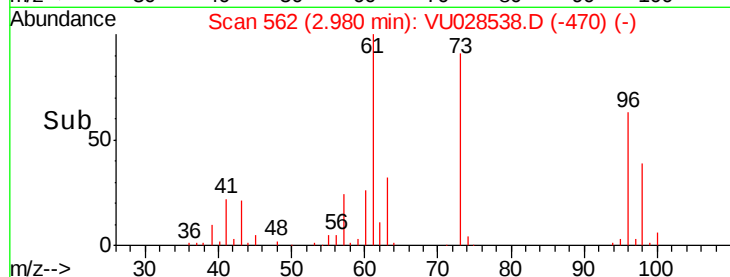
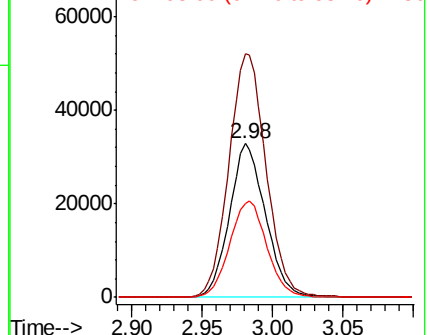
96 100

61 158.1 112.8 209.4

98 61.3 43.8 81.3



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



#18

Methyl tert-butyl Ether

Concen: 53.112 ug/L

RT: 3.00 min Scan# 567

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

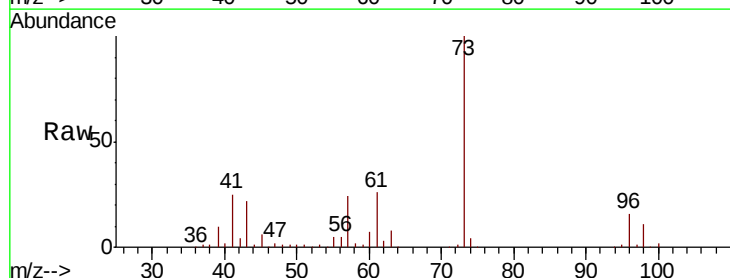
Tgt Ion: 73 Resp: 208158

Ion Ratio Lower Upper

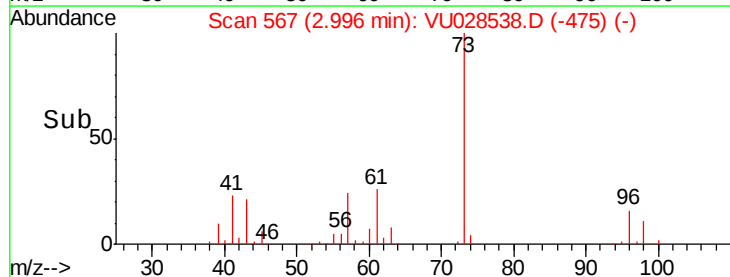
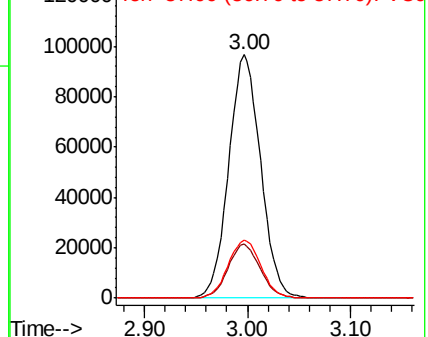
73 100

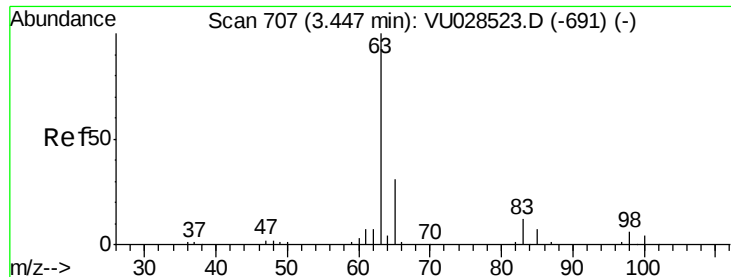
43 22.0 18.1 27.1

57 24.6 19.7 29.5



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

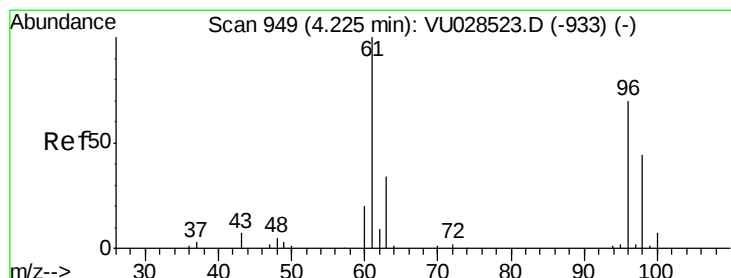
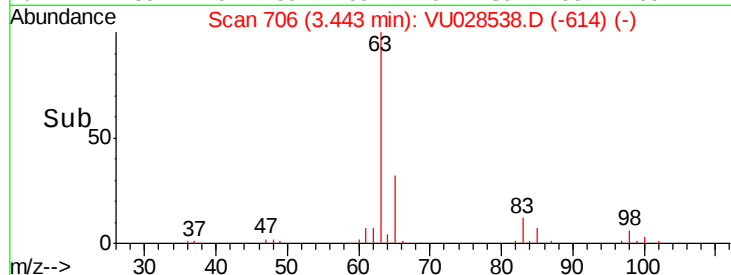
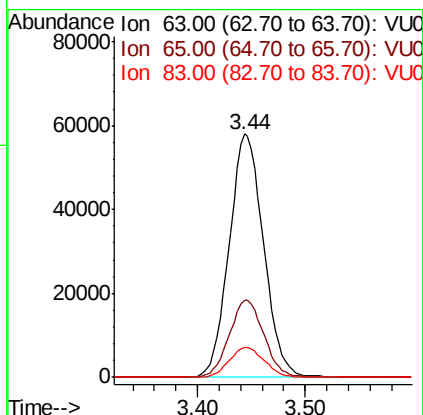
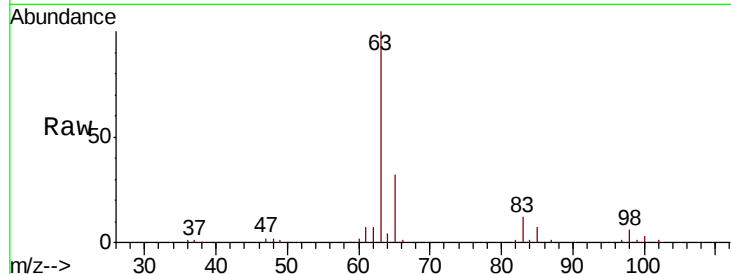




#19
 1,1-Dichloroethane
 Concen: 52.690 ug/L
 RT: 3.44 min Scan# 706
 Delta R.T. -0.00 min
 Lab File: VU028538.D
 Acq: 07 Dec 2018 18:05

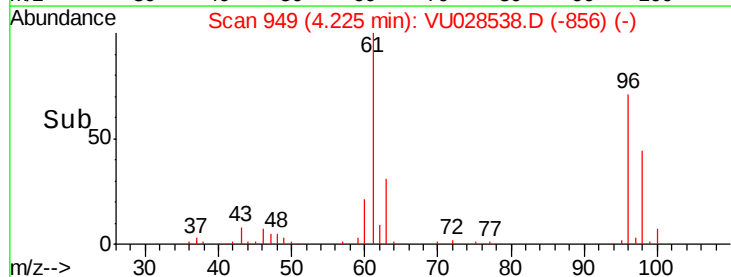
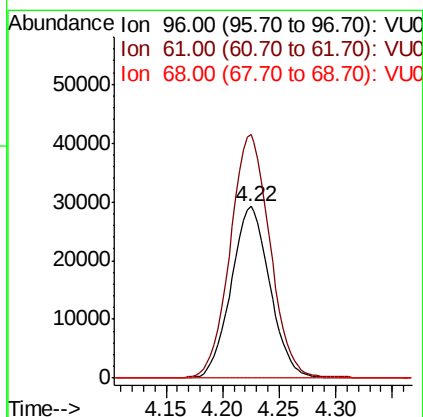
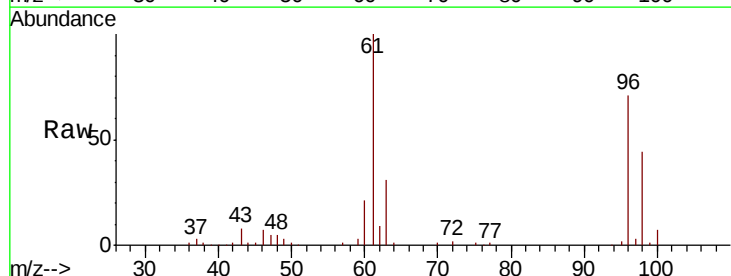
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

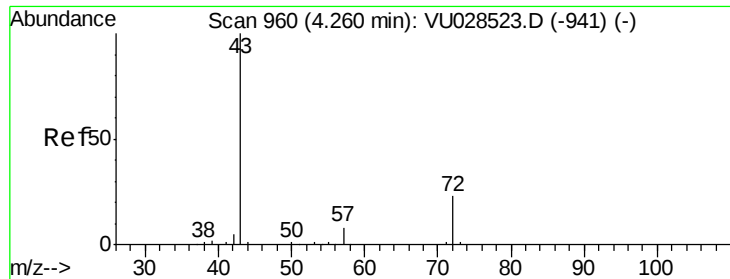
Tgt Ion: 63 Resp: 128768
 Ion Ratio Lower Upper
 63 100
 65 31.8 21.8 40.4
 83 12.3 8.5 15.7



#20
 cis-1,2-Dichloroethene
 Concen: 53.408 ug/L
 RT: 4.22 min Scan# 949
 Delta R.T. -0.00 min
 Lab File: VU028538.D
 Acq: 07 Dec 2018 18:05

Tgt Ion: 96 Resp: 69613
 Ion Ratio Lower Upper
 96 100
 61 141.8 100.1 185.9
 68 0.0 0.0 0.0

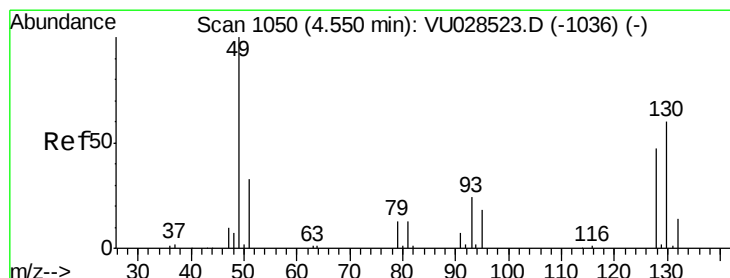
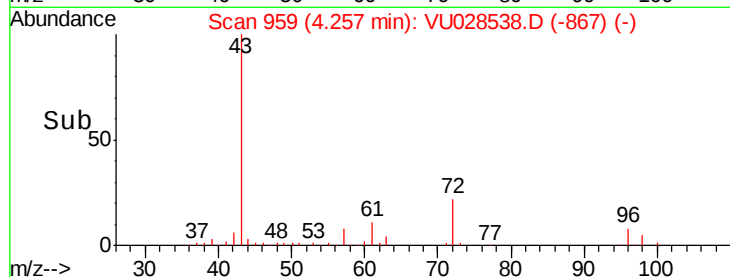
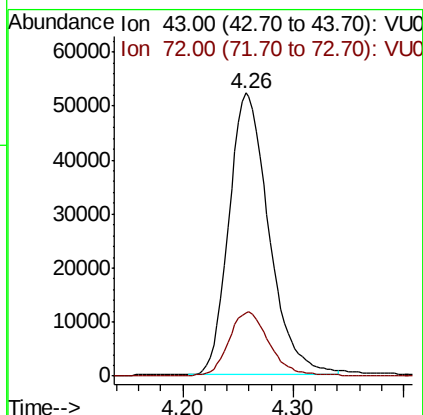
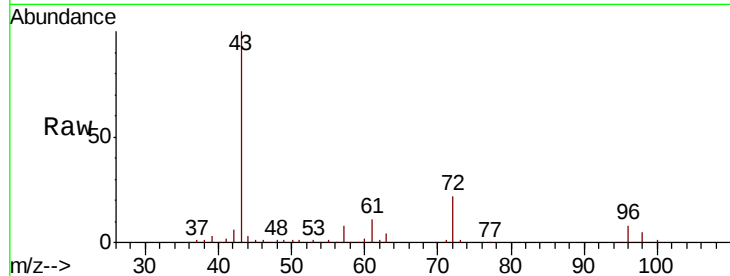




#22
 2-Butanone
 Concen: 87.833 ug/L
 RT: 4.26 min Scan# 959
 Delta R.T. -0.00 min
 Lab File: VU028538.D
 Acq: 07 Dec 2018 18:05

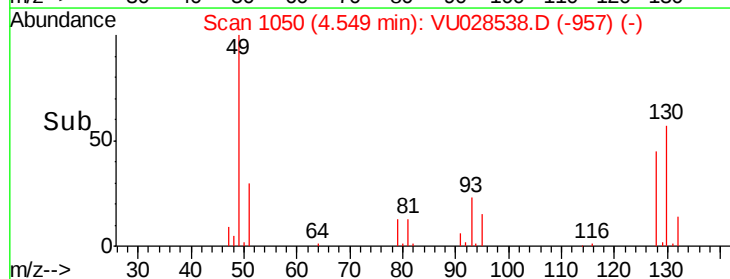
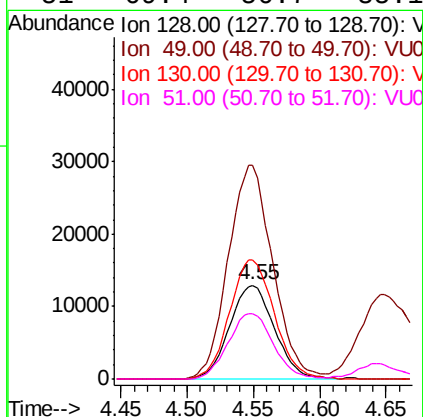
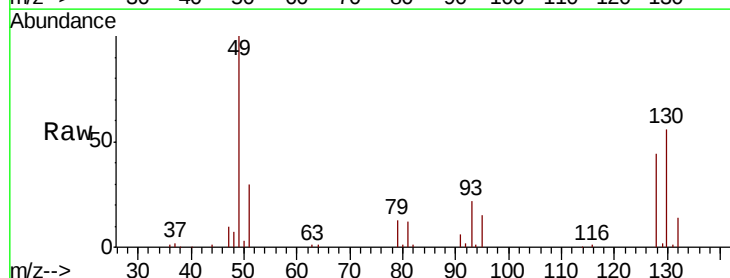
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

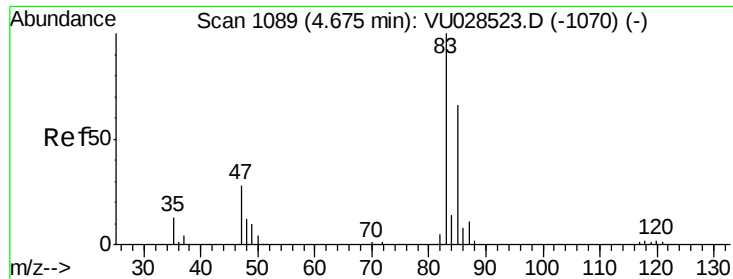
Tgt Ion: 43 Resp: 131242
 Ion Ratio Lower Upper
 43 100
 72 23.0 11.9 35.5



#23
 Bromochloromethane
 Concen: 53.078 ug/L
 RT: 4.55 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VU028538.D
 Acq: 07 Dec 2018 18:05

Tgt Ion: 128 Resp: 30327
 Ion Ratio Lower Upper
 128 100
 49 227.9 150.8 280.1
 130 127.6 90.9 168.7
 51 69.4 56.7 85.1

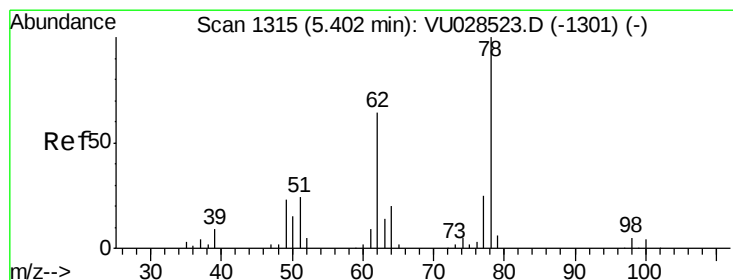
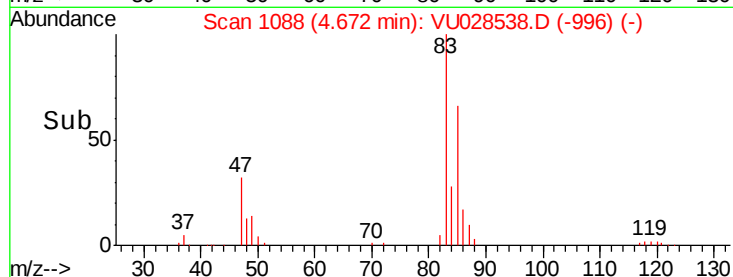
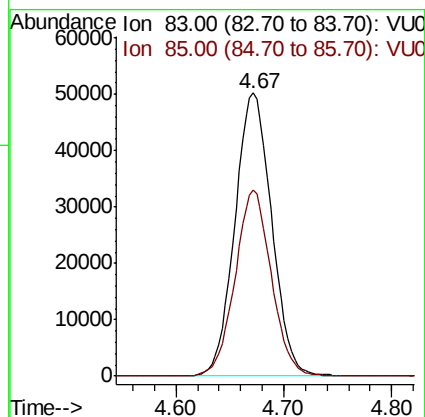
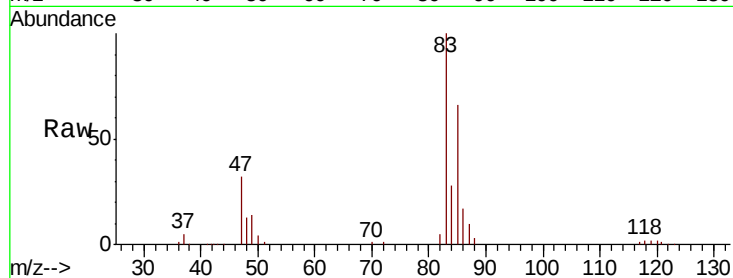




#25
Chloroform
Concen: 53.462 ug/L
RT: 4.67 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VU028538.D
Acq: 07 Dec 2018 18:05

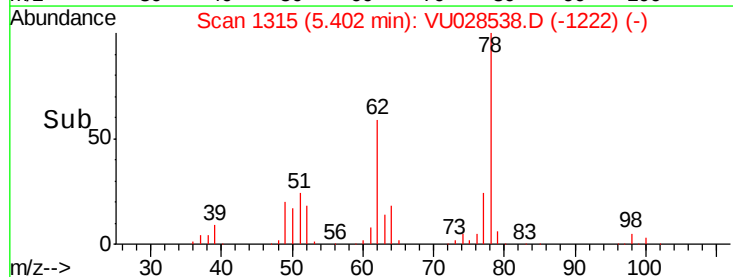
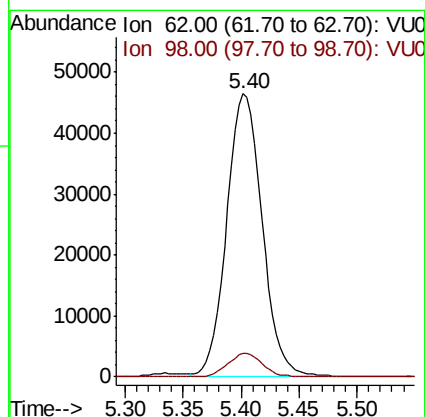
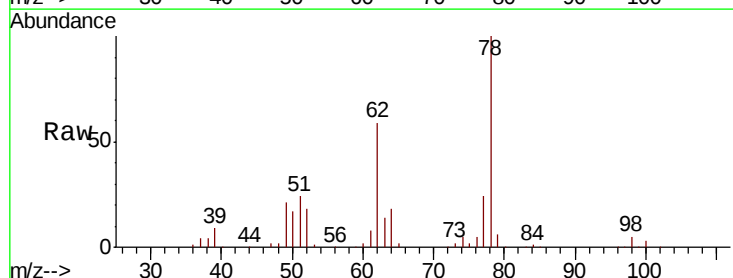
Instrument :
MSVOA_U
ClientSampled :
VSTD05060

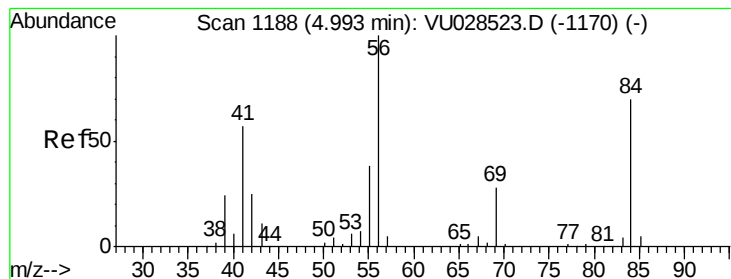
Tgt Ion: 83 Resp: 119404
Ion Ratio Lower Upper
83 100
85 65.6 46.0 85.4



#27
1,2-Dichloroethane
Concen: 53.144 ug/L
RT: 5.40 min Scan# 1315
Delta R.T. -0.00 min
Lab File: VU028538.D
Acq: 07 Dec 2018 18:05

Tgt Ion: 62 Resp: 98296
Ion Ratio Lower Upper
62 100
98 8.4 6.7 10.1





#29

Cyclohexane

Concen: 51.595 ug/L

RT: 5.00 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

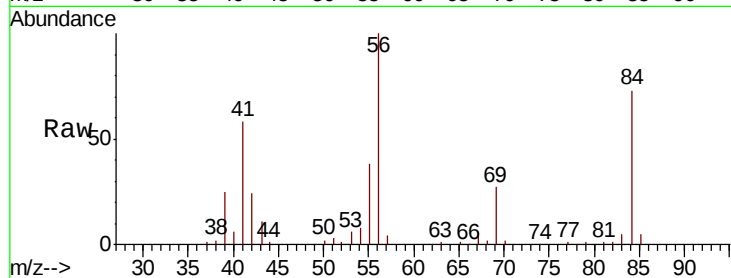
Tgt Ion: 56 Resp: 126759

Ion Ratio Lower Upper

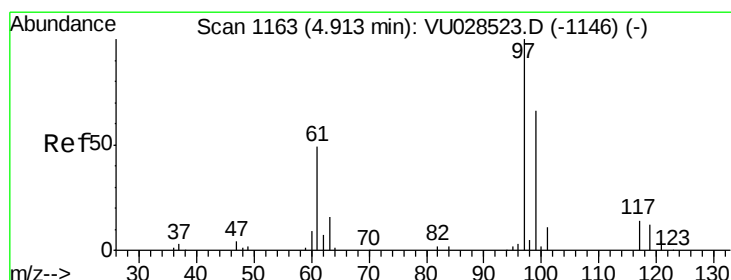
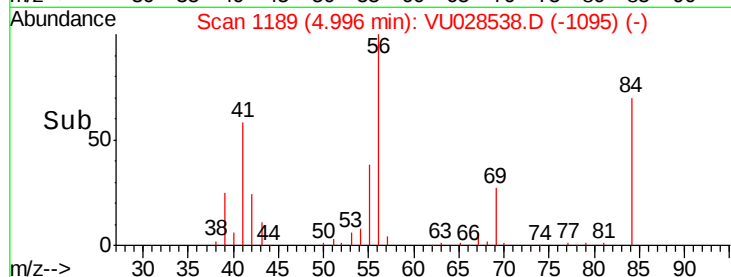
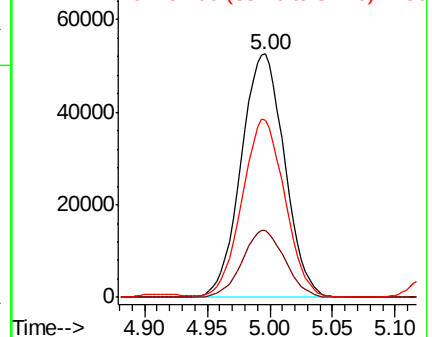
56 100

69 27.0 22.2 33.2

84 72.0 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0



#30

1,1,1-Trichloroethane

Concen: 52.370 ug/L

RT: 4.91 min Scan# 1163

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

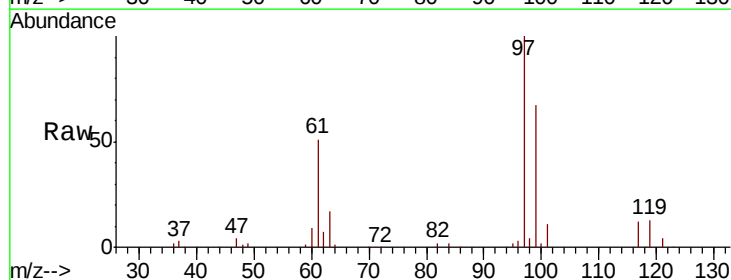
Tgt Ion: 97 Resp: 94195

Ion Ratio Lower Upper

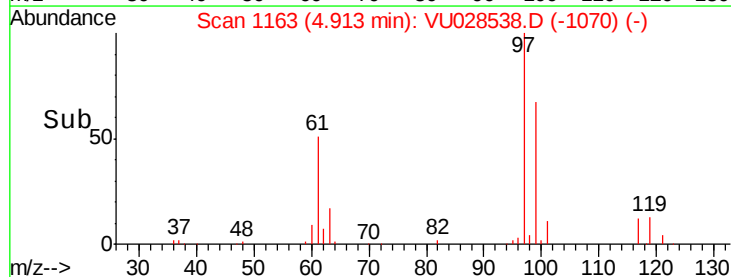
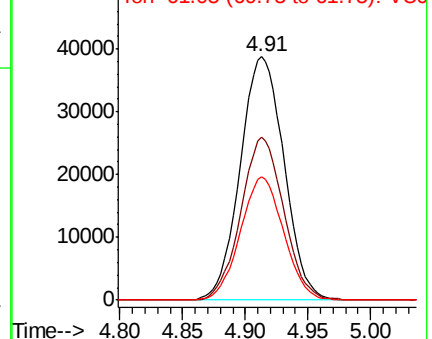
97 100

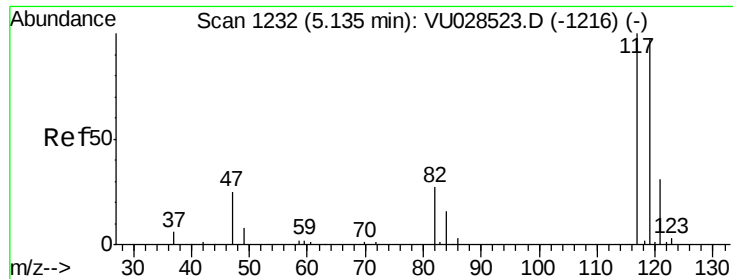
99 65.4 51.4 77.0

61 50.0 38.7 58.1



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0

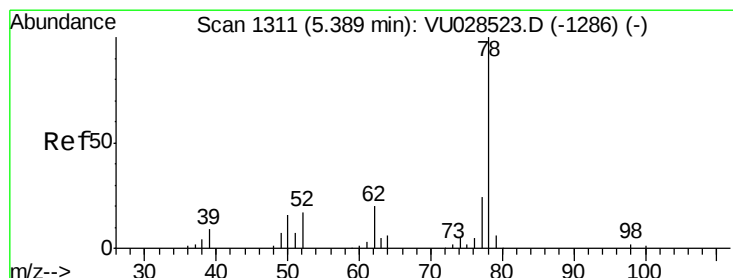
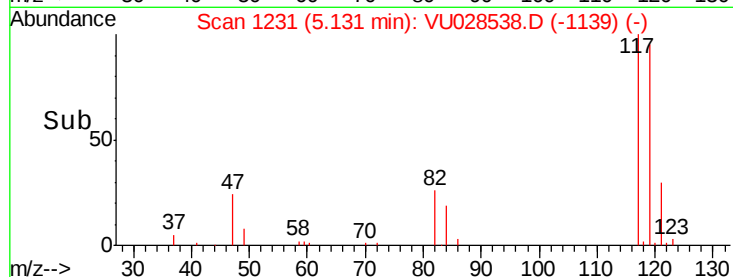
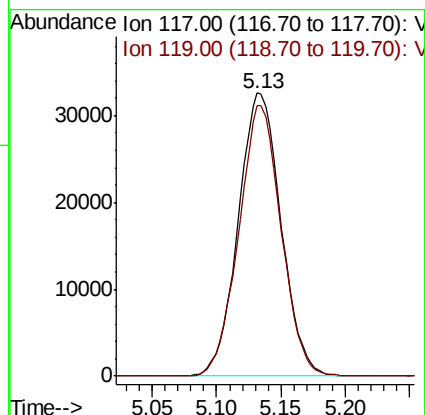
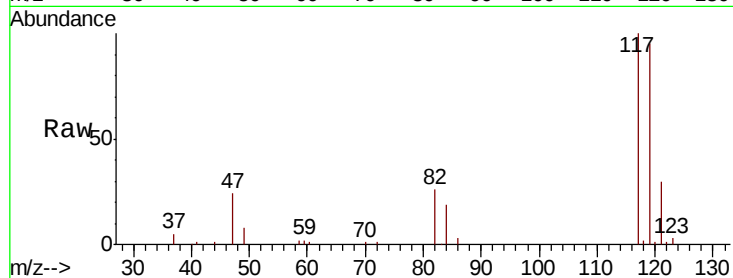




#31
Carbon tetrachloride
Concen: 51.931 ug/L
RT: 5.13 min Scan# 1231
Delta R.T. -0.00 min
Lab File: VU028538.D
Acq: 07 Dec 2018 18:05

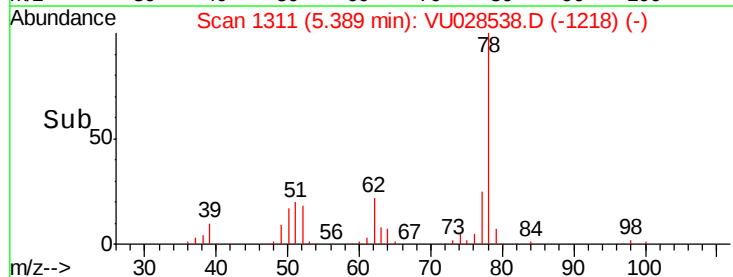
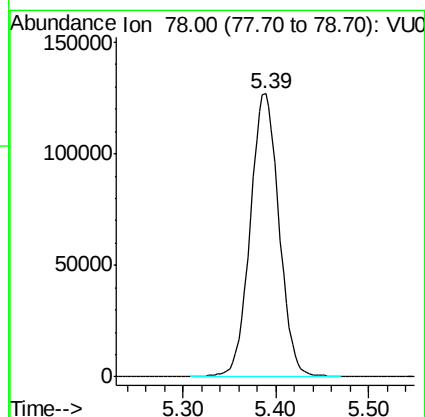
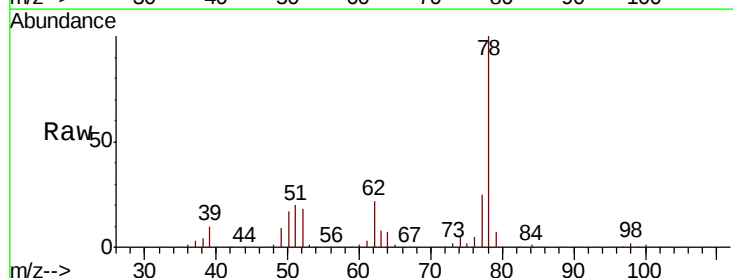
Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

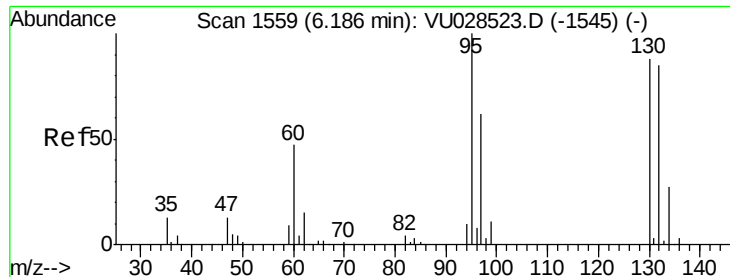
Tgt Ion:117 Resp: 75127
Ion Ratio Lower Upper
117 100
119 94.7 77.4 116.2



#33
Benzene
Concen: 52.480 ug/L
RT: 5.39 min Scan# 1311
Delta R.T. -0.00 min
Lab File: VU028538.D
Acq: 07 Dec 2018 18:05

Tgt Ion: 78 Resp: 273997





#34

Trichloroethene

Concen: 51.640 ug/L

RT: 6.18 min Scan# 1558

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

Tgt Ion: 95 Resp: 64822

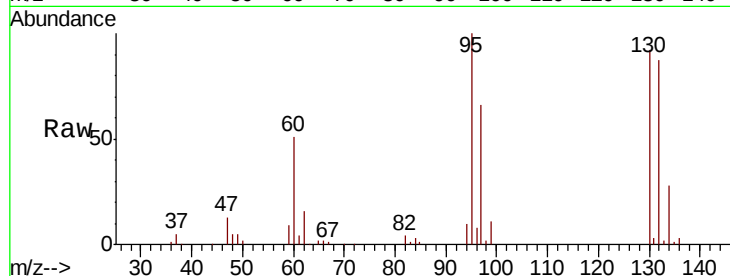
Ion Ratio Lower Upper

95 100

97 65.8 43.5 80.9

132 87.4 59.6 110.6

130 92.4 61.8 114.8



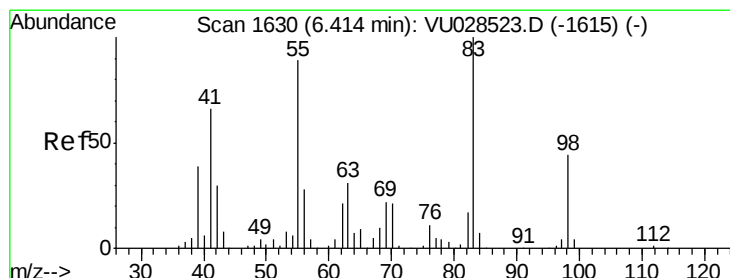
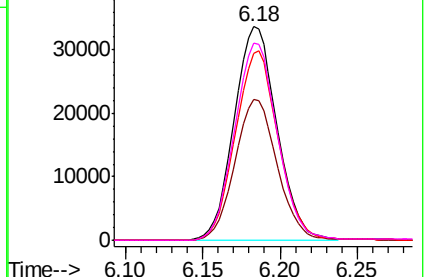
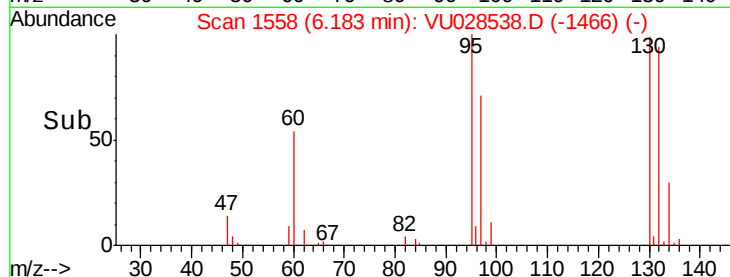
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

6.18



#35

Methylcyclohexane

Concen: 52.180 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

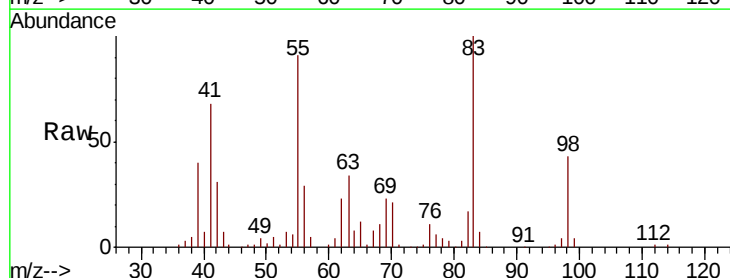
Tgt Ion: 83 Resp: 113288

Ion Ratio Lower Upper

83 100

55 89.0 70.1 105.1

98 43.0 34.4 51.6

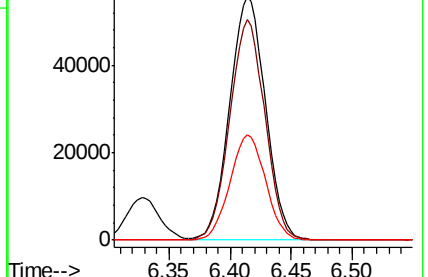
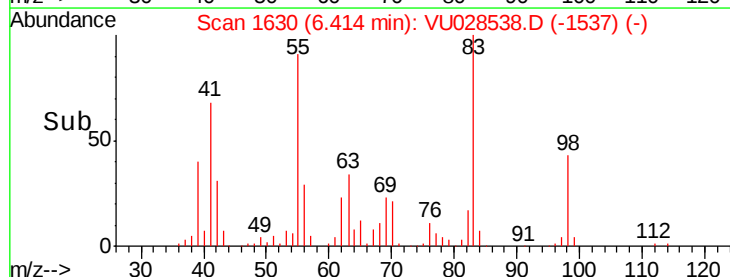


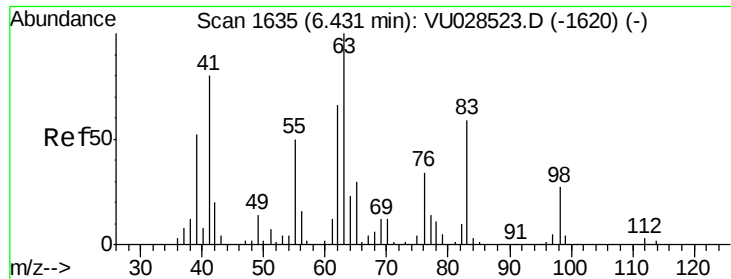
Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

6.41

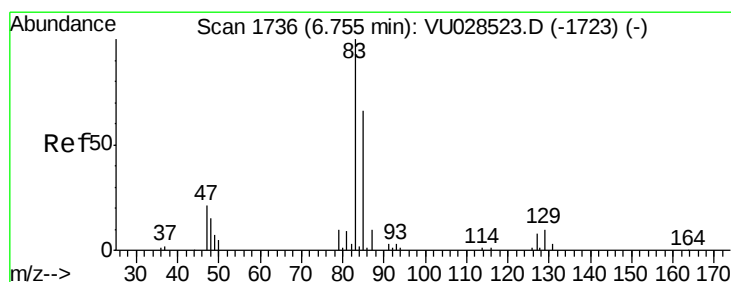
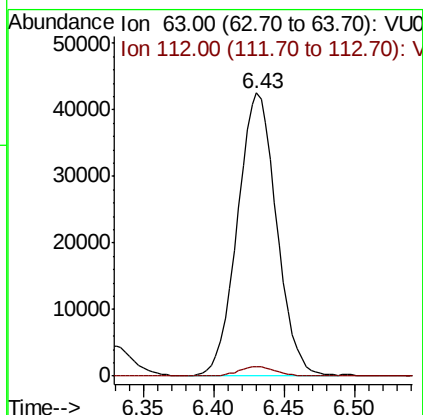
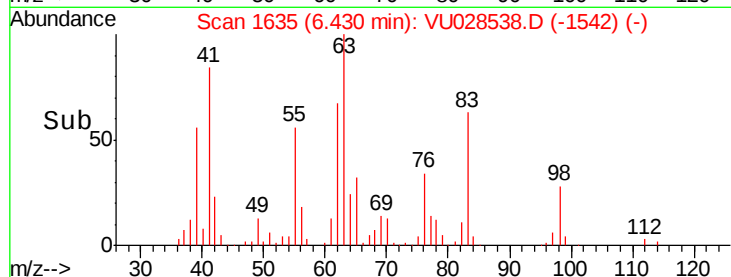
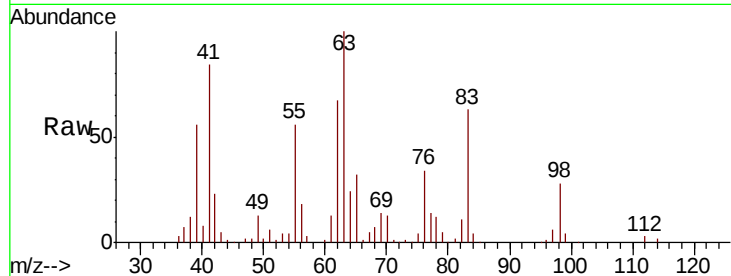




#37
 1,2-Dichloropropane
 Concen: 53.415 ug/L
 RT: 6.43 min Scan# 1635
 Delta R.T. -0.00 min
 Lab File: VU028538.D
 Acq: 07 Dec 2018 18:05

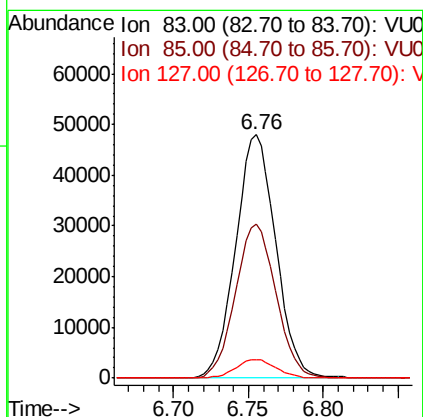
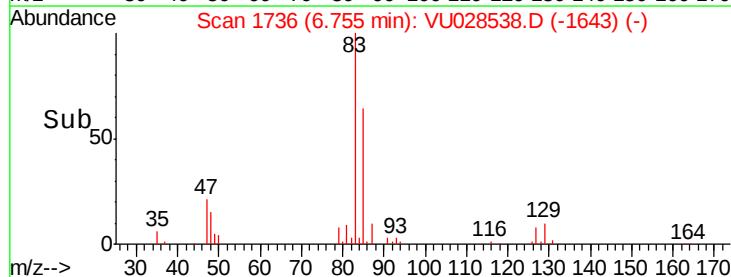
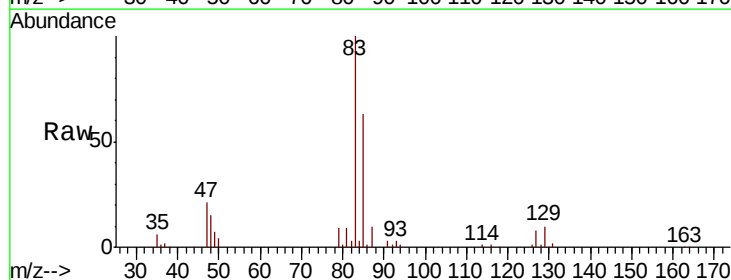
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

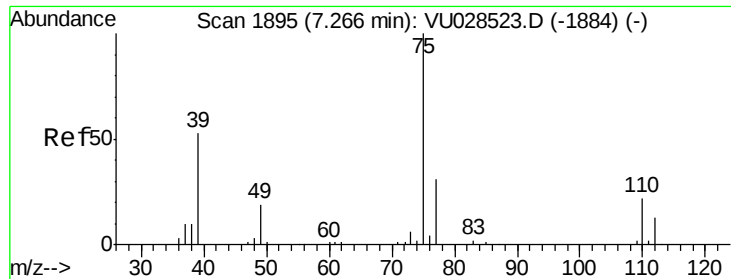
Tgt Ion: 63 Resp: 82663
 Ion Ratio Lower Upper
 63 100
 112 3.1 2.4 3.6



#38
 Bromodichloromethane
 Concen: 52.225 ug/L
 RT: 6.76 min Scan# 1736
 Delta R.T. -0.00 min
 Lab File: VU028538.D
 Acq: 07 Dec 2018 18:05

Tgt Ion: 83 Resp: 89484
 Ion Ratio Lower Upper
 83 100
 85 63.0 46.5 86.3
 127 7.6 6.3 9.5

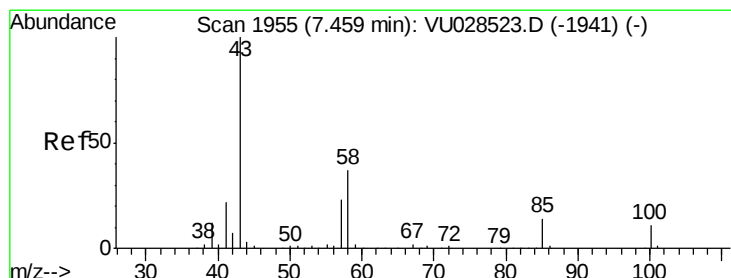
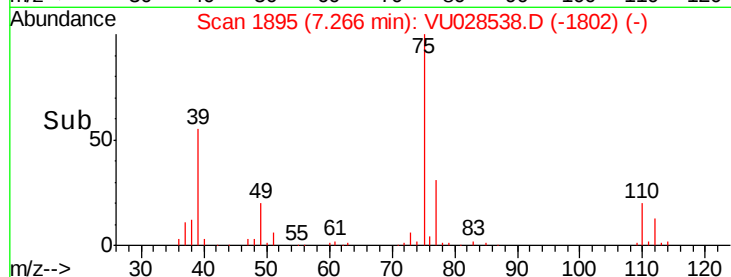
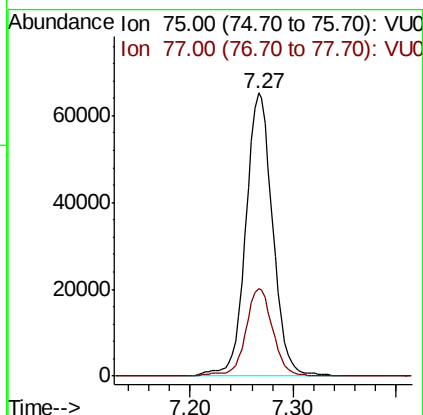
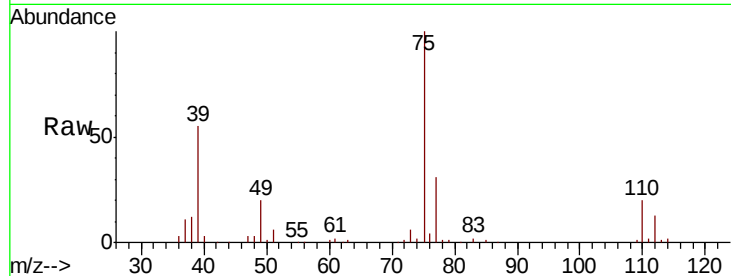




#39
 cis-1,3-Dichloropropene
 Concen: 53.572 ug/L
 RT: 7.27 min Scan# 1895
 Delta R.T. -0.00 min
 Lab File: VU028538.D
 Acq: 07 Dec 2018 18:05

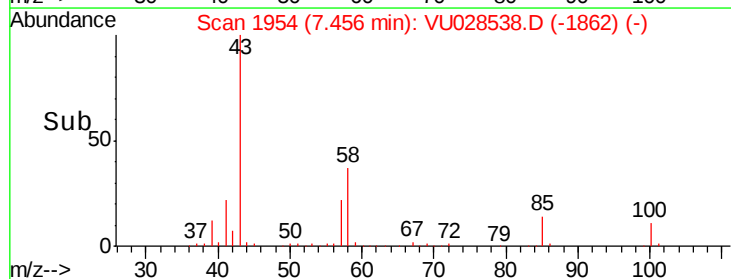
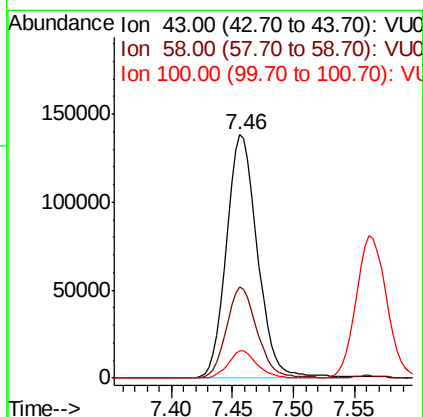
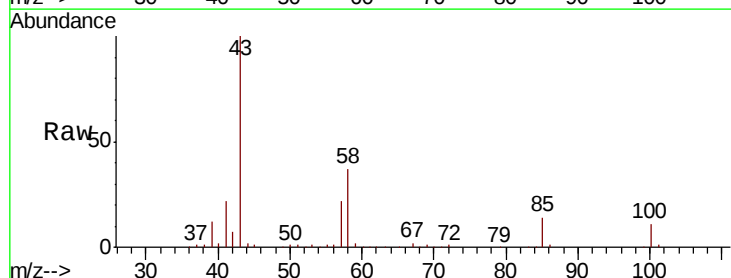
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

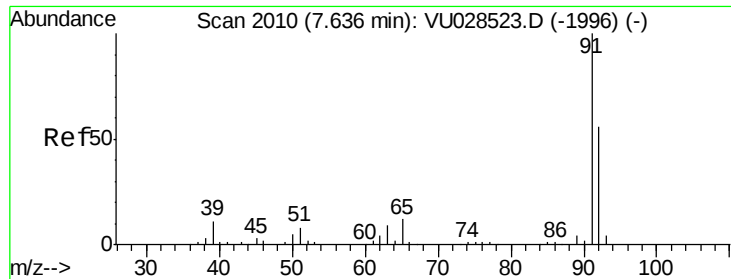
Tgt Ion: 75 Resp: 117815
 Ion Ratio Lower Upper
 75 100
 77 31.1 21.8 40.6



#40
 4-Methyl-2-pentanone
 Concen: 101.768 ug/L
 RT: 7.46 min Scan# 1954
 Delta R.T. -0.00 min
 Lab File: VU028538.D
 Acq: 07 Dec 2018 18:05

Tgt Ion: 43 Resp: 247083
 Ion Ratio Lower Upper
 43 100
 58 37.0 29.6 44.4
 100 10.4 9.0 13.4





#42

Toluene

Concen: 52.193 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

Instrument :

MSVOA_U

ClientSampleId :

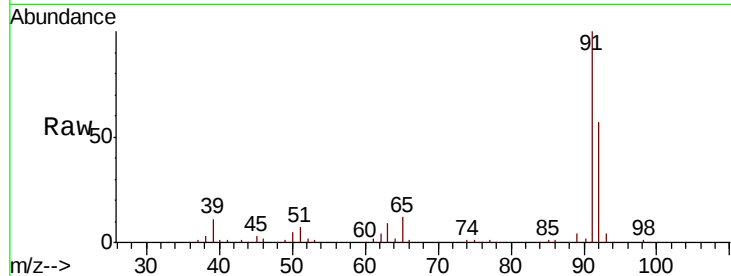
VSTD05060

Tgt Ion: 91 Resp: 276747

Ion Ratio Lower Upper

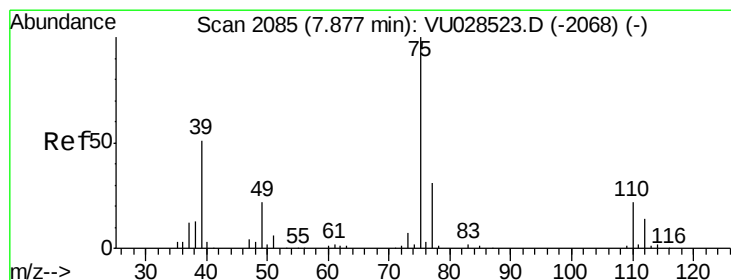
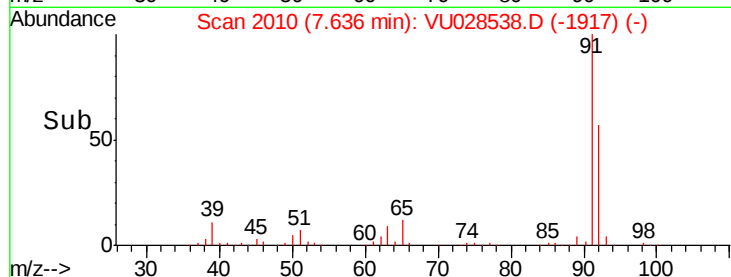
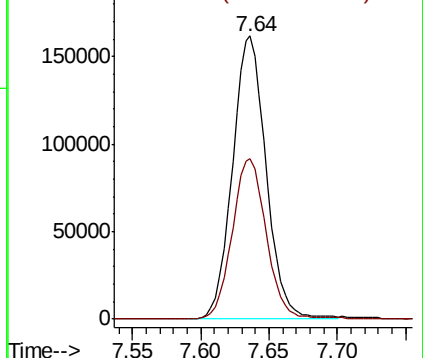
91 100

92 56.8 39.5 73.4



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 53.925 ug/L

RT: 7.88 min Scan# 2085

Delta R.T. -0.00 min

Lab File: VU028538.D

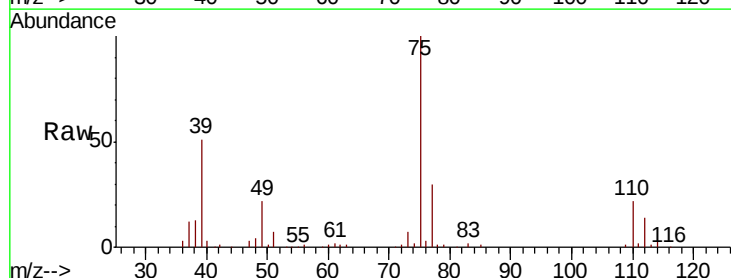
Acq: 07 Dec 2018 18:05

Tgt Ion: 75 Resp: 108668

Ion Ratio Lower Upper

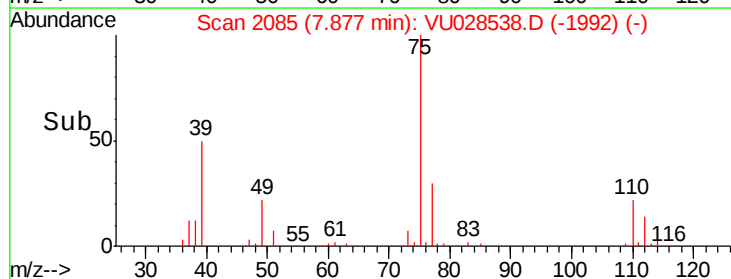
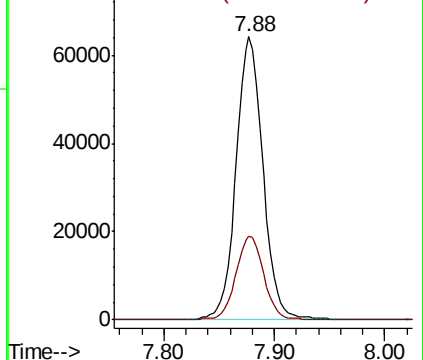
75 100

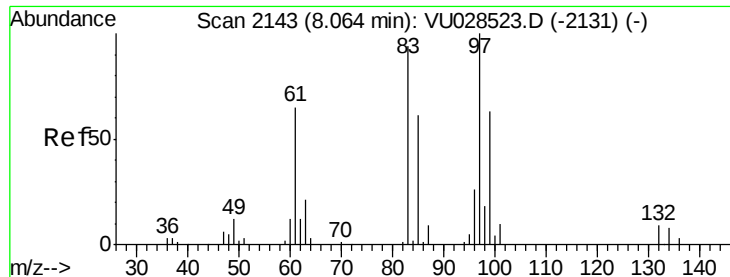
77 29.7 21.8 40.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

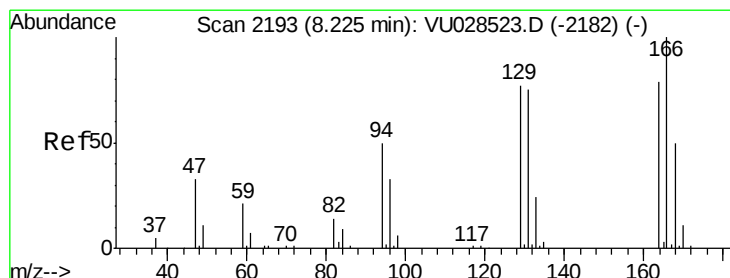
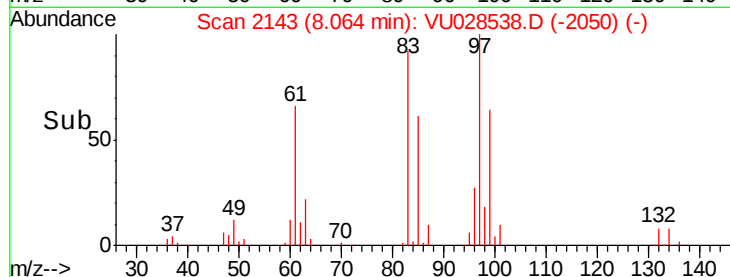
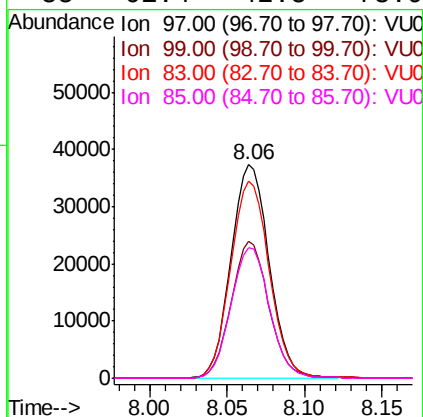
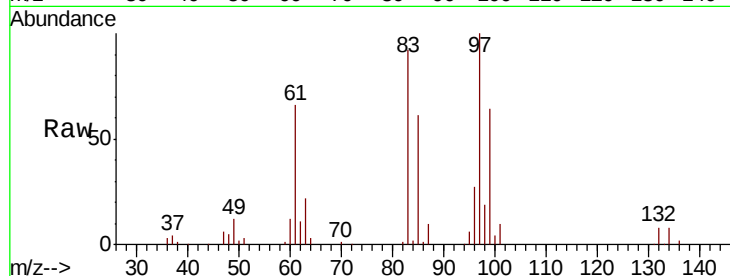




#45
 1,1,2-Trichloroethane
 Concen: 53.115 ug/L
 RT: 8.06 min Scan# 2143
 Delta R.T. -0.00 min
 Lab File: VU028538.D
 Acq: 07 Dec 2018 18:05

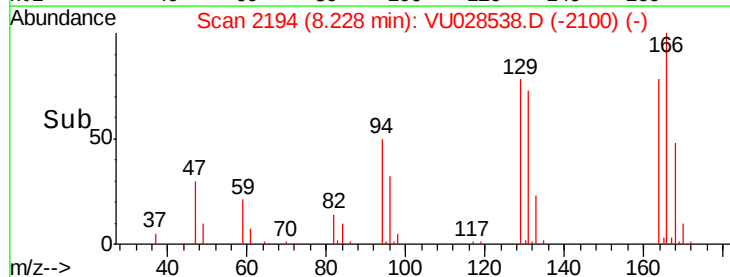
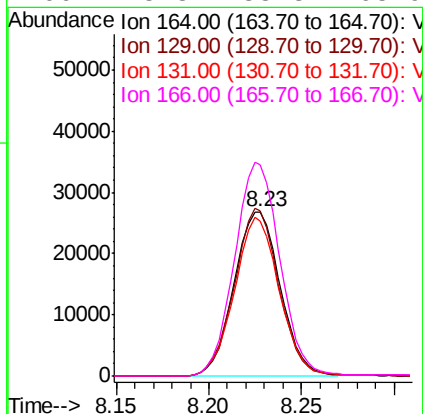
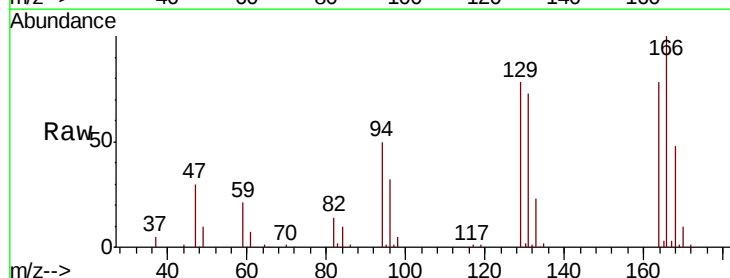
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

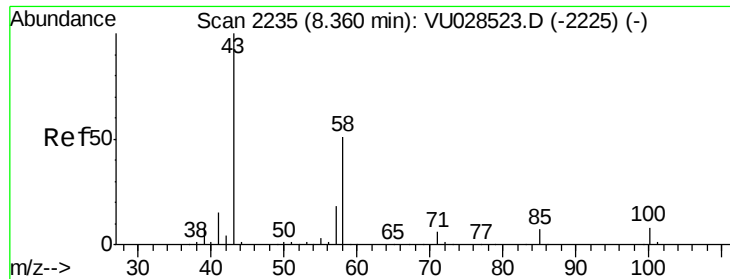
Tgt Ion:	97	Resp:	64147
Ion	Ratio	Lower	Upper
97	100		
99	64.3	44.2	82.2
83	92.3	66.0	122.6
85	61.4	42.5	78.9



#46
 Tetrachloroethene
 Concen: 52.817 ug/L
 RT: 8.23 min Scan# 2194
 Delta R.T. 0.00 min
 Lab File: VU028538.D
 Acq: 07 Dec 2018 18:05

Tgt Ion:	164	Resp:	46457
Ion	Ratio	Lower	Upper
164	100		
129	100.5	68.2	126.6
131	94.6	66.1	122.7
166	128.8	88.3	163.9

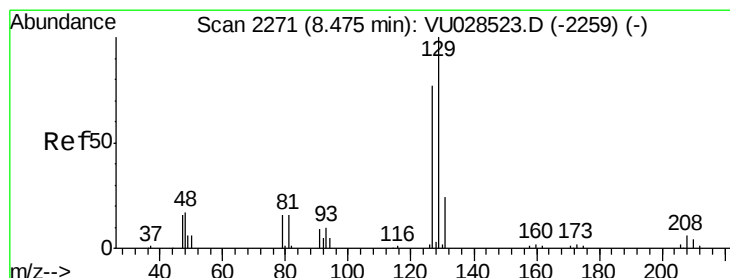
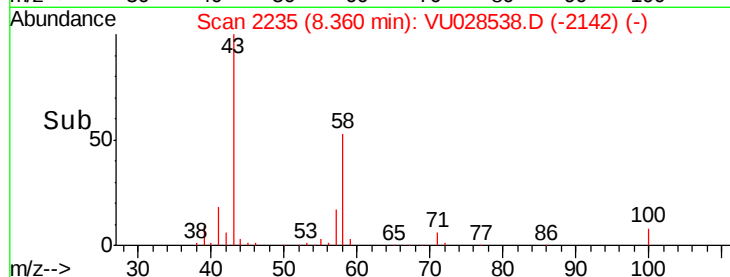
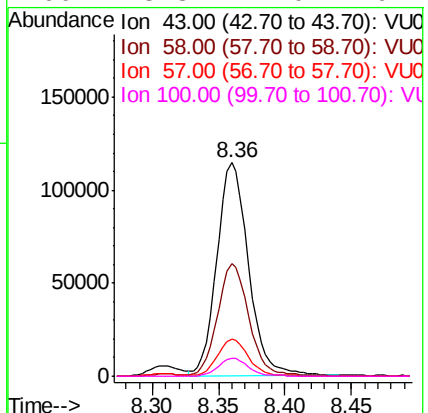
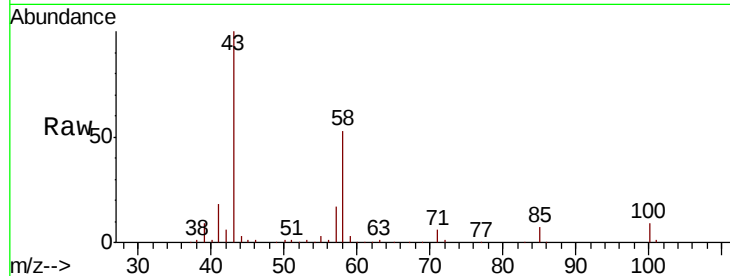




#48
2-Hexanone
Concen: 93.562 ug/L
RT: 8.36 min Scan# 2235
Delta R.T. -0.00 min
Lab File: VU028538.D
Acq: 07 Dec 2018 18:05

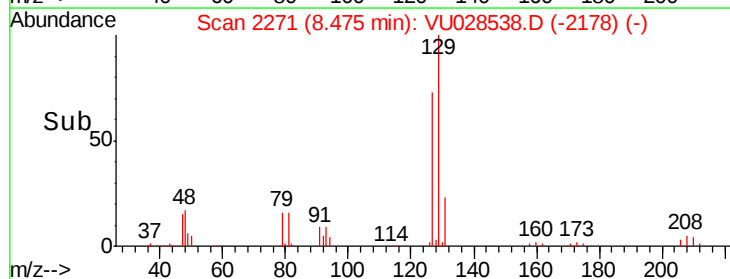
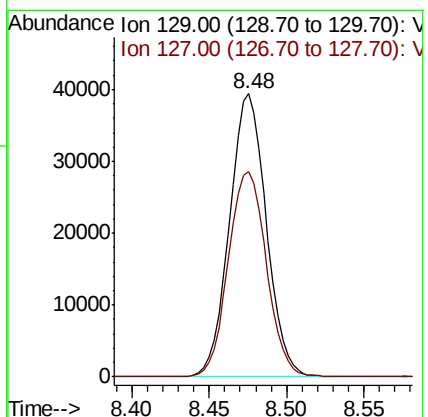
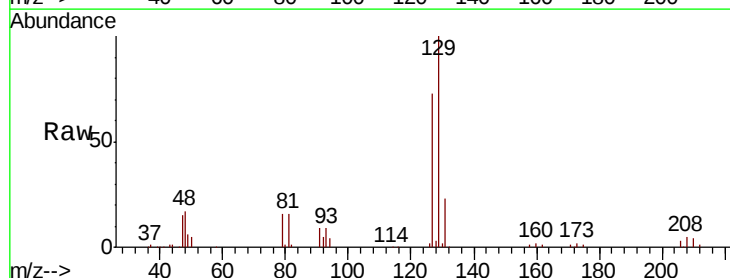
Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

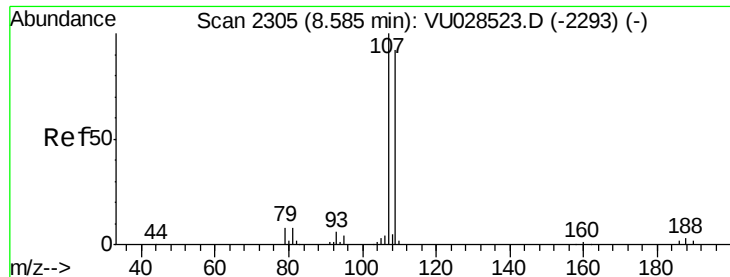
Tgt Ion: 43 Resp: 190546
Ion Ratio Lower Upper
43 100
58 52.5 41.6 62.4
57 16.8 13.8 20.6
100 8.3 7.0 10.4



#49
Dibromochloromethane
Concen: 52.922 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU028538.D
Acq: 07 Dec 2018 18:05

Tgt Ion: 129 Resp: 65045
Ion Ratio Lower Upper
129 100
127 72.8 54.0 100.2

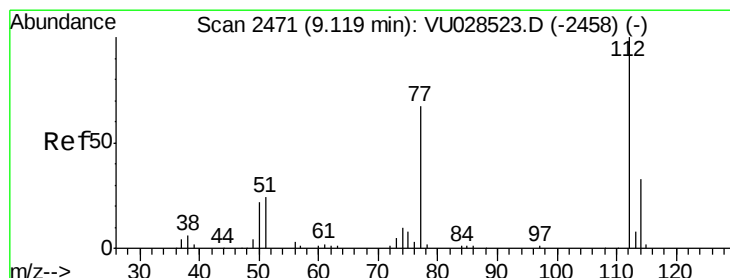
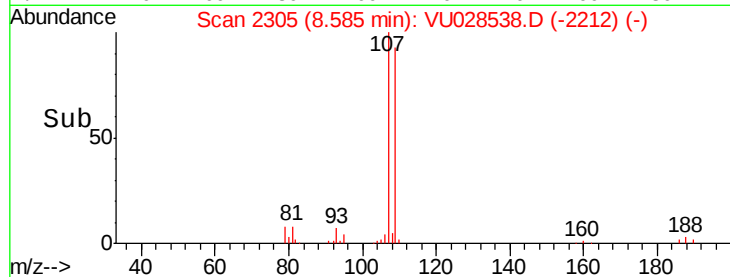
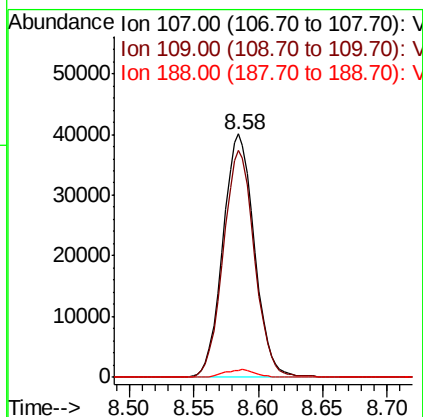
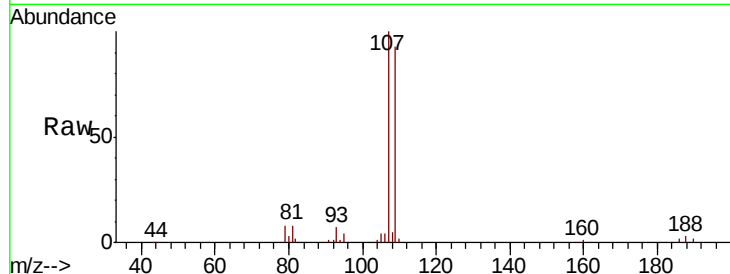




#50
1,2-Dibromoethane
Concen: 52.696 ug/L
RT: 8.58 min Scan# 2305
Delta R.T. -0.00 min
Lab File: VU028538.D
Acq: 07 Dec 2018 18:05

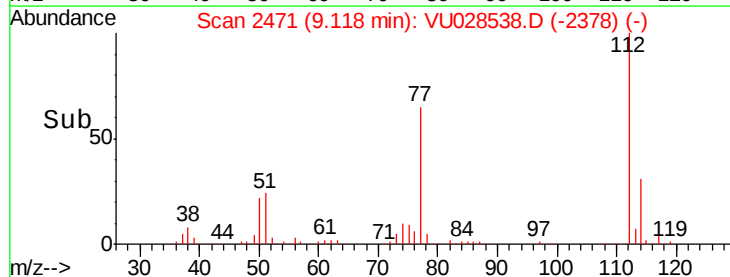
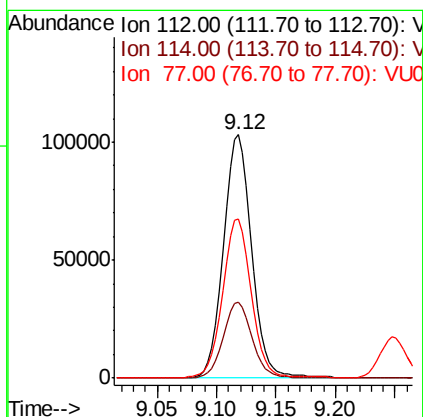
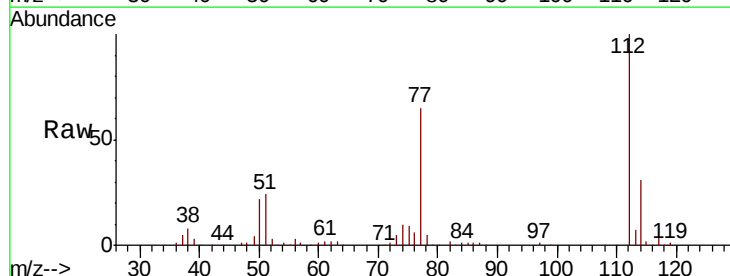
Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

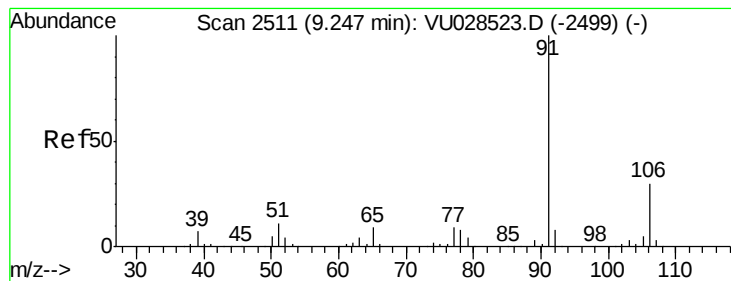
Tgt Ion:107 Resp: 67987
Ion Ratio Lower Upper
107 100
109 93.3 64.5 119.9
188 3.1 2.6 3.8



#51
Chlorobenzene
Concen: 53.572 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU028538.D
Acq: 07 Dec 2018 18:05

Tgt Ion:112 Resp: 169640
Ion Ratio Lower Upper
112 100
114 31.3 23.0 42.6
77 65.4 53.9 80.9





#52

Ethylbenzene

Concen: 52.516 ug/L

RT: 9.25 min Scan# 2511

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

Instrument :

MSVOA_U

ClientSampleId :

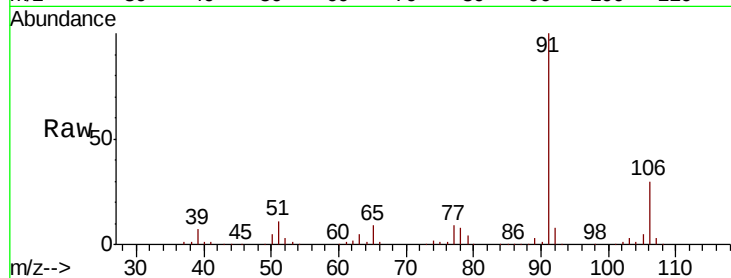
VSTD05060

Tgt Ion: 91 Resp: 307676

Ion Ratio Lower Upper

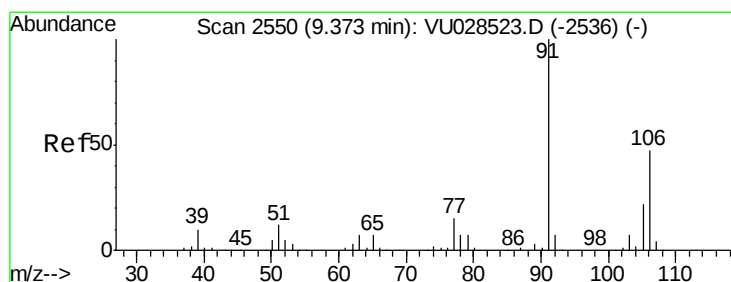
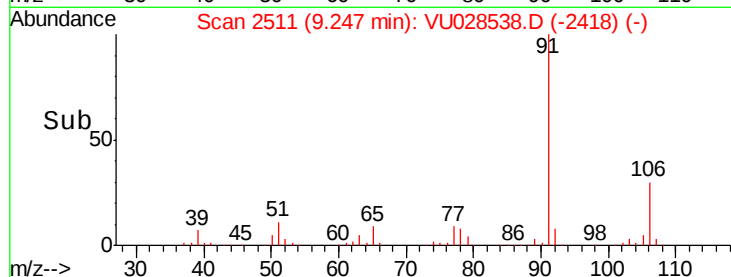
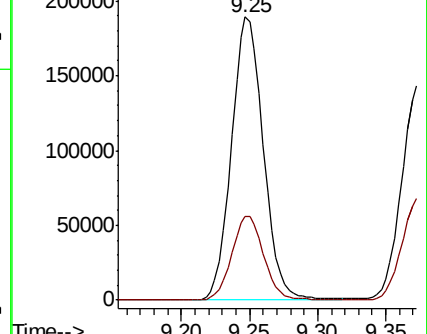
91 100

106 29.8 21.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V



#53

m,p-Xylene

Concen: 53.321 ug/L

RT: 9.37 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VU028538.D

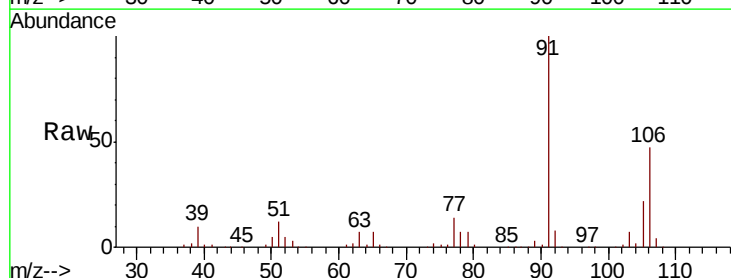
Acq: 07 Dec 2018 18:05

Tgt Ion: 106 Resp: 111716

Ion Ratio Lower Upper

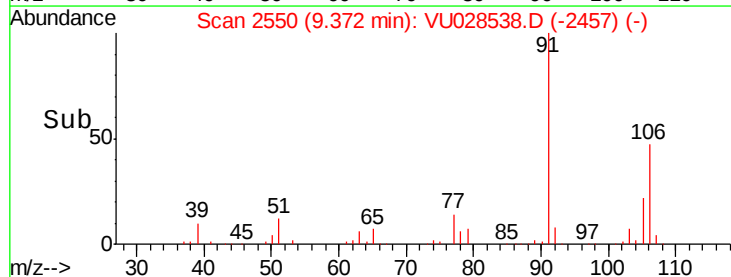
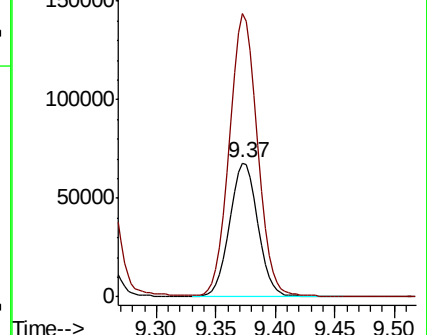
106 100

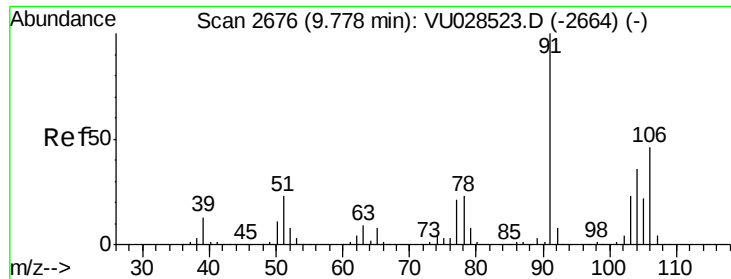
91 211.3 148.8 276.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#54

o-xylene

Concen: 53.135 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

Instrument :

MSVOA_U

ClientSampleId :

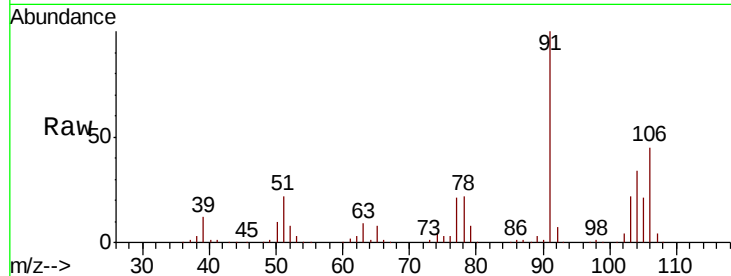
VSTD05060

Tgt Ion:106 Resp: 110062

Ion Ratio Lower Upper

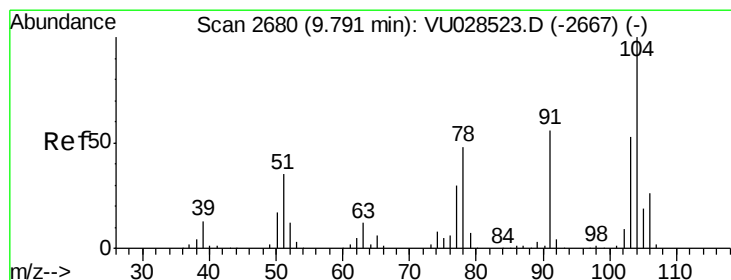
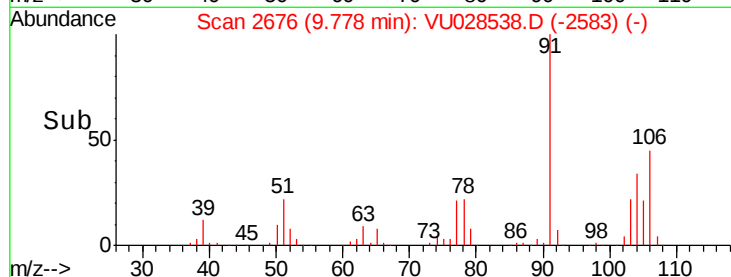
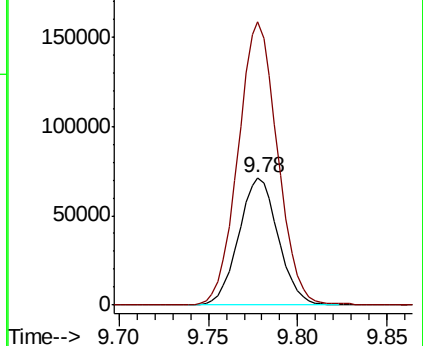
106 100

91 222.4 151.4 281.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 53.935 ug/L

RT: 9.79 min Scan# 2680

Delta R.T. -0.00 min

Lab File: VU028538.D

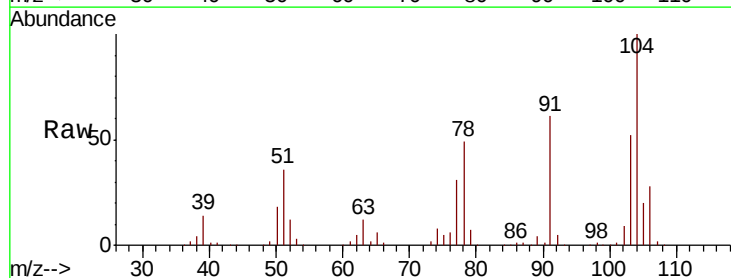
Acq: 07 Dec 2018 18:05

Tgt Ion:104 Resp: 191508

Ion Ratio Lower Upper

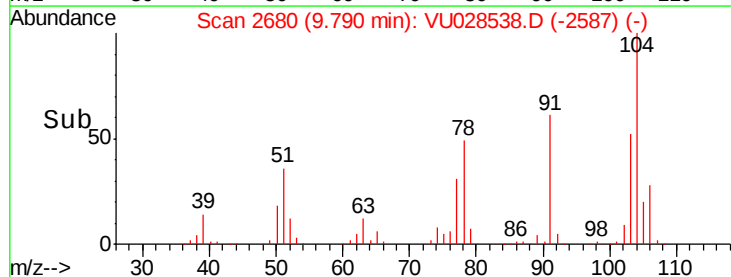
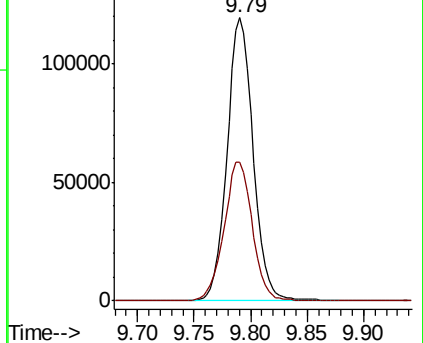
104 100

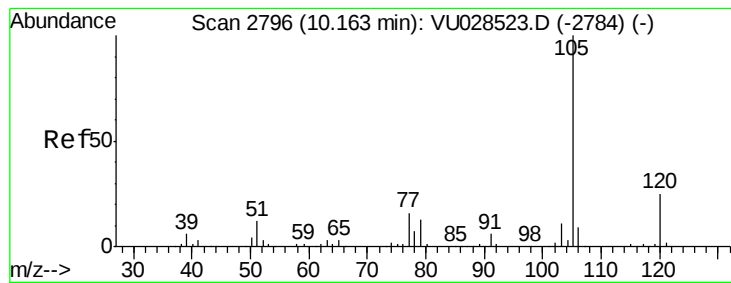
78 49.1 34.1 63.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 53.015 ug/L

RT: 10.16 min Scan# 2796

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

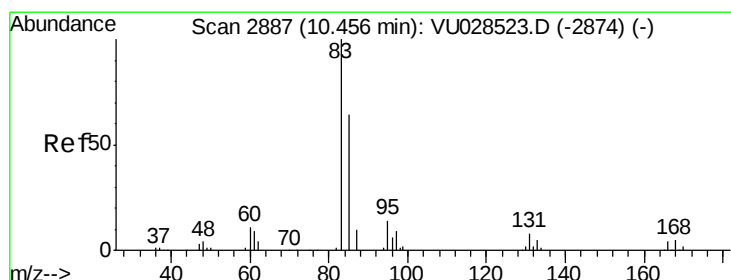
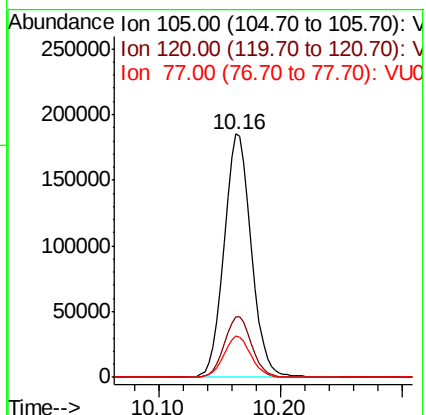
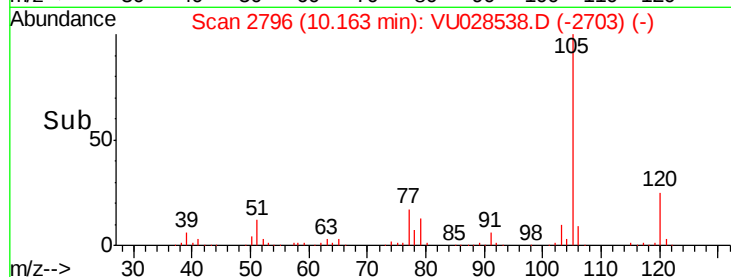
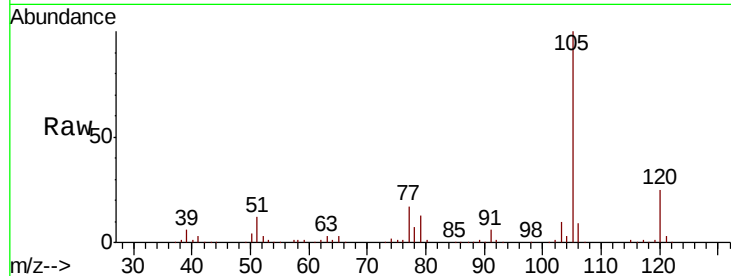
Tgt Ion: 105 Resp: 290017

Ion Ratio Lower Upper

105 100

120 25.3 20.2 30.2

77 16.9 13.1 19.7



#58

1,1,2,2-Tetrachloroethane

Concen: 52.312 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

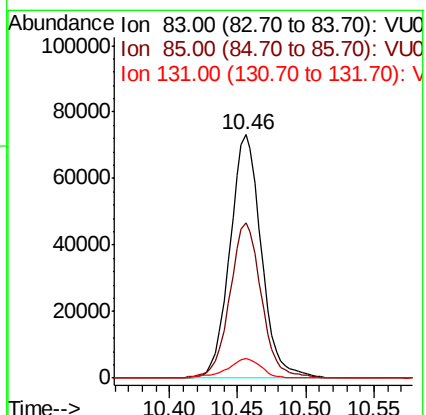
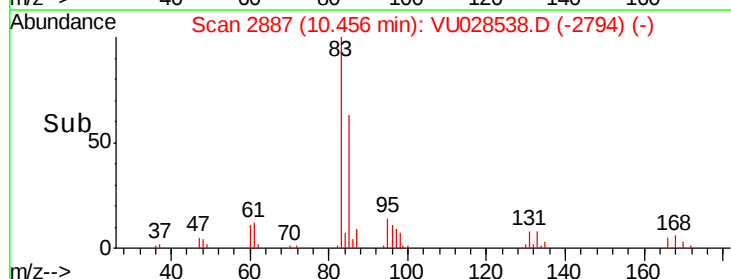
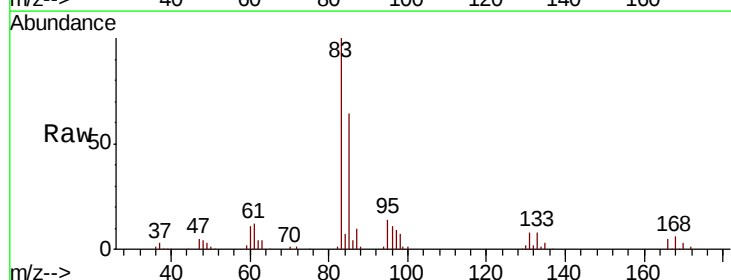
Tgt Ion: 83 Resp: 117049

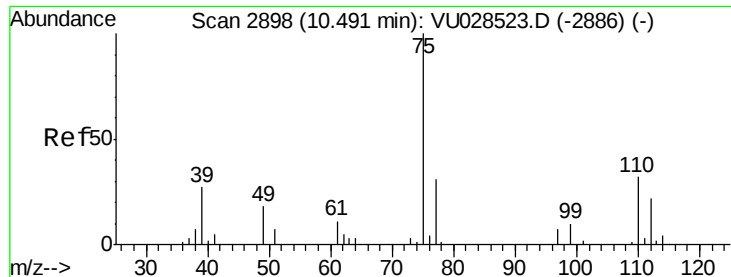
Ion Ratio Lower Upper

83 100

85 63.7 45.1 83.7

131 7.9 6.4 9.6

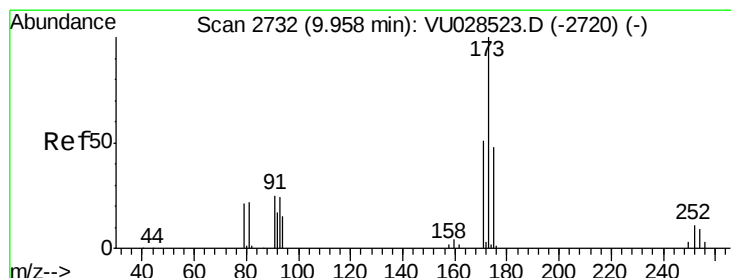
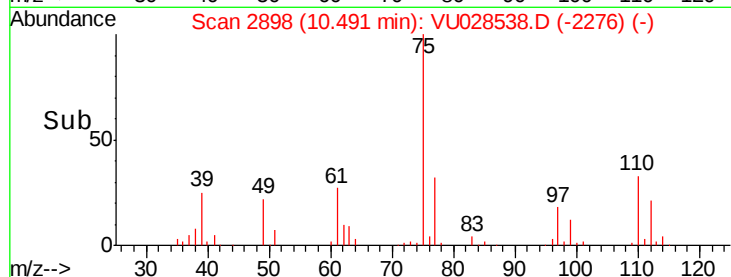
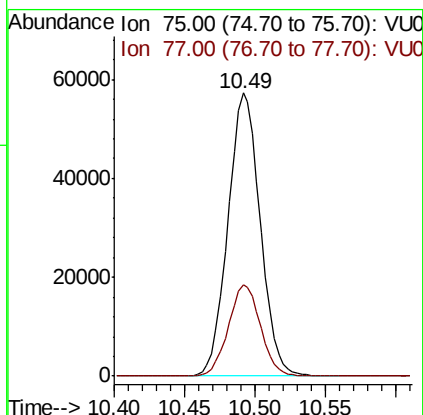
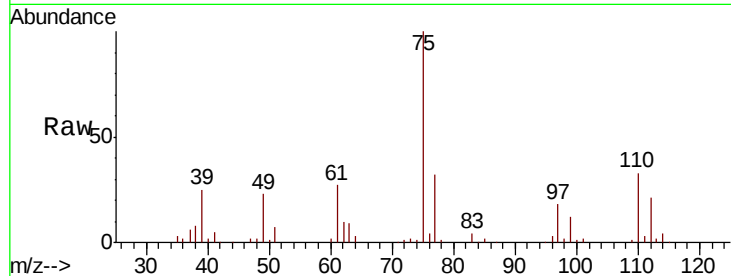




#59
 1,2,3-Trichloropropane
 Concen: 52.032 ug/L
 RT: 10.49 min Scan# 2898
 Delta R.T. -0.00 min
 Lab File: VU028538.D
 Acq: 07 Dec 2018 18:05

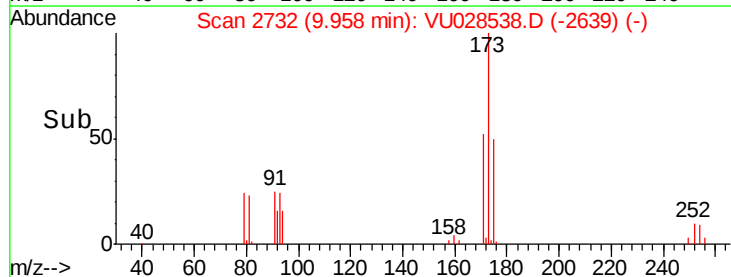
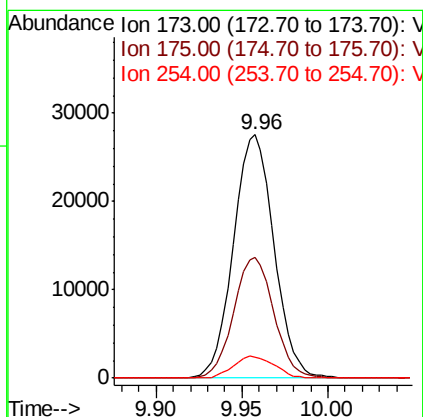
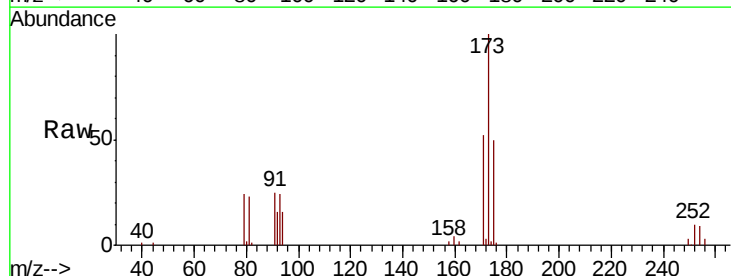
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

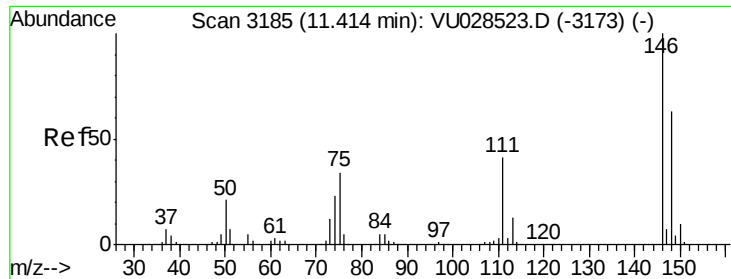
Tgt Ion: 75 Resp: 91568
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.4 38.2



#61
 Bromoform
 Concen: 48.803 ug/L
 RT: 9.96 min Scan# 2732
 Delta R.T. -0.00 min
 Lab File: VU028538.D
 Acq: 07 Dec 2018 18:05

Tgt Ion: 173 Resp: 45378
 Ion Ratio Lower Upper
 173 100
 175 48.9 38.7 58.1
 254 9.1 7.1 10.7





#62

1,3-Dichlorobenzene

Concen: 51.620 ug/L

RT: 11.41 min Scan# 3185

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

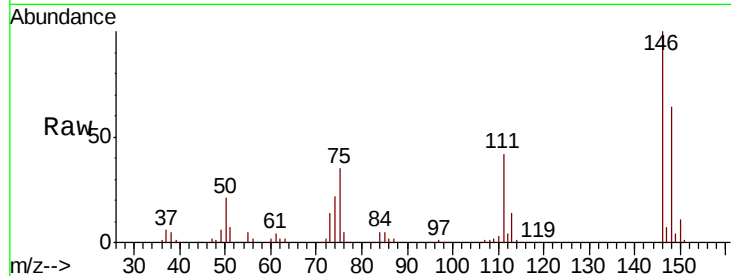
Tgt Ion:146 Resp: 127376

Ion Ratio Lower Upper

146 100

111 42.0 28.5 52.9

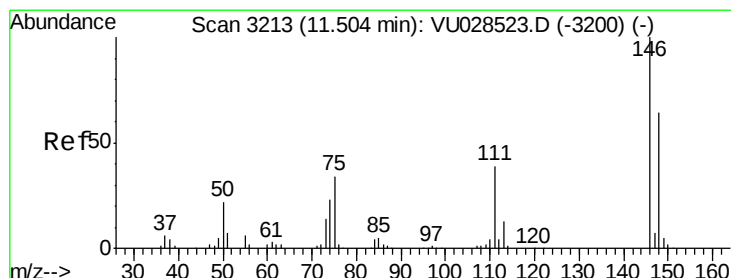
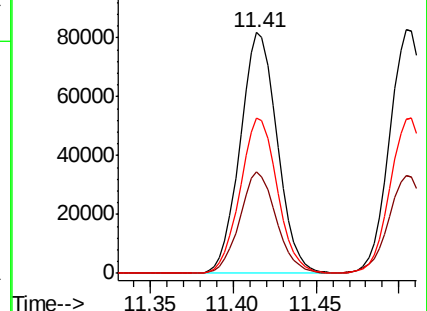
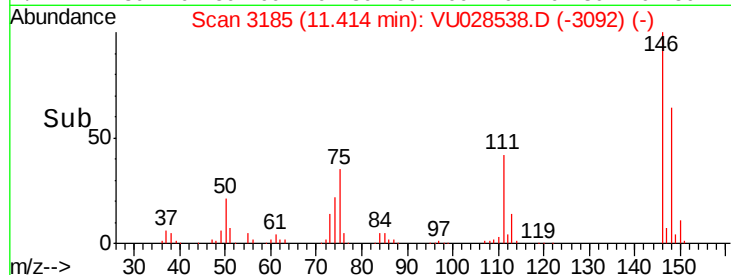
148 64.3 43.9 81.5



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: 52.251 ug/L

RT: 11.50 min Scan# 3213

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

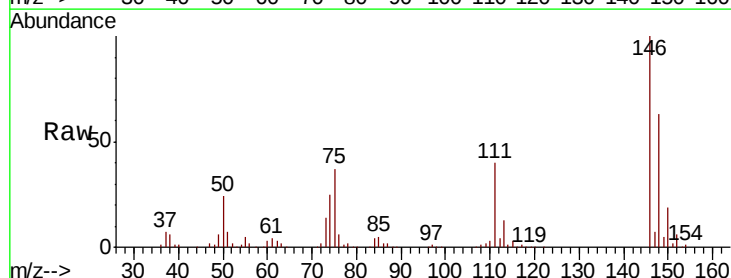
Tgt Ion:146 Resp: 129969

Ion Ratio Lower Upper

146 100

111 40.2 27.6 51.4

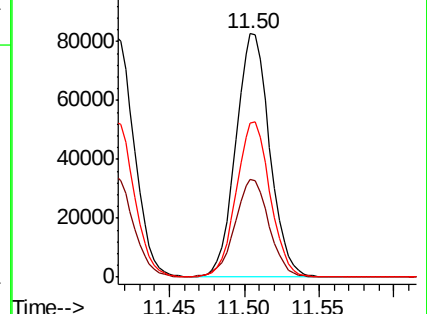
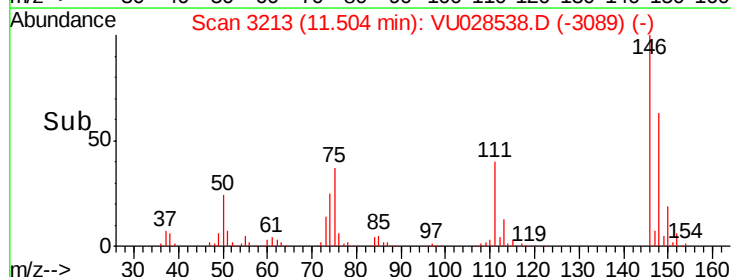
148 63.4 45.1 83.9

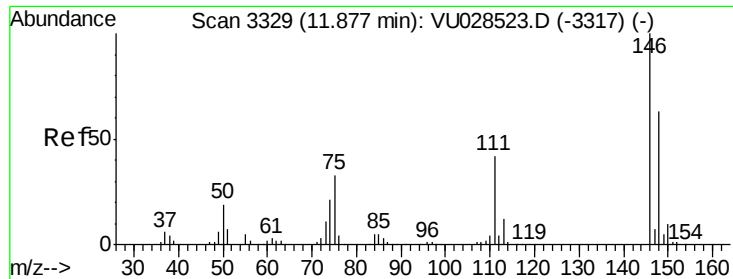


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 52.223 ug/L

RT: 11.88 min Scan# 3329

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

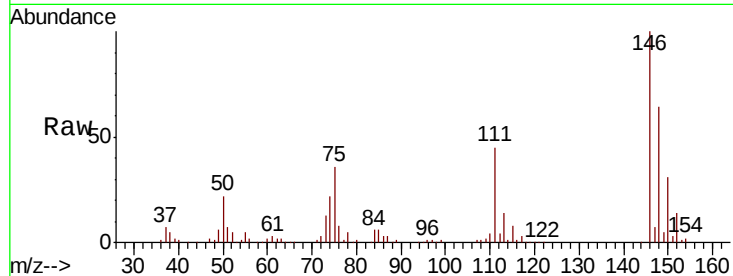
Tgt Ion:146 Resp: 128166

Ion Ratio Lower Upper

146 100

111 44.8 33.4 50.2

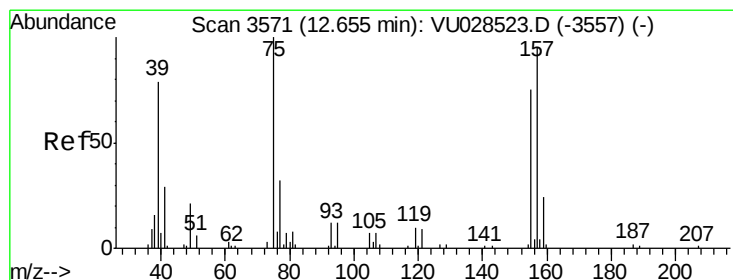
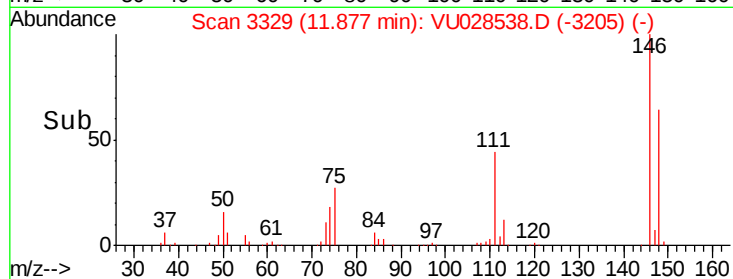
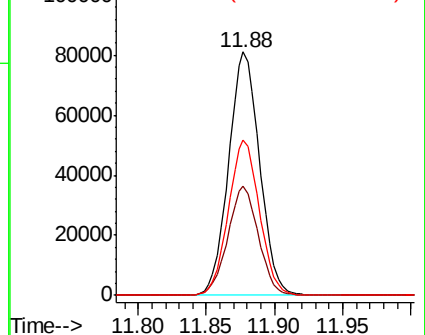
148 63.8 50.2 75.2



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: 48.391 ug/L

RT: 12.66 min Scan# 3571

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

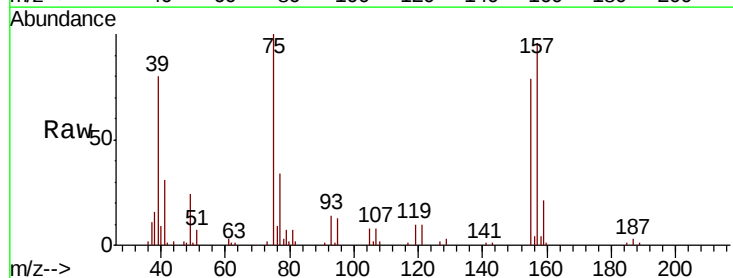
Tgt Ion: 75 Resp: 23534

Ion Ratio Lower Upper

75 100

155 78.8 59.9 89.9

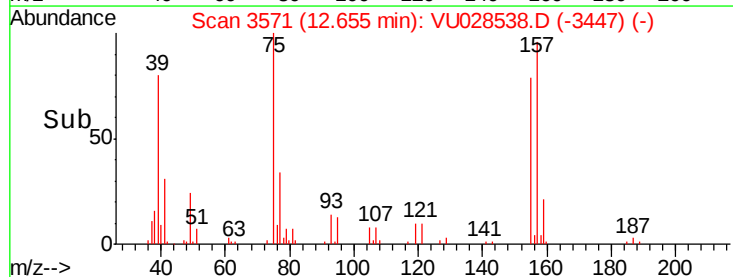
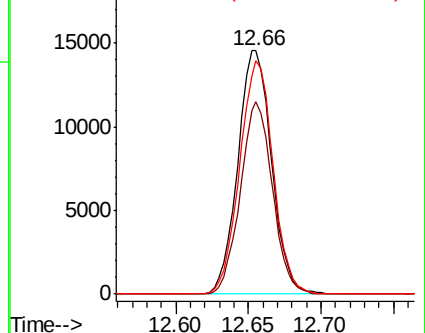
157 95.6 75.8 113.8

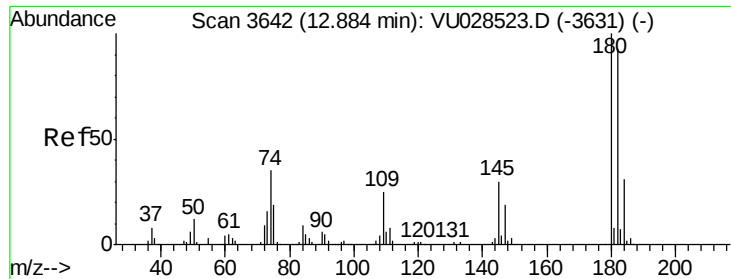


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

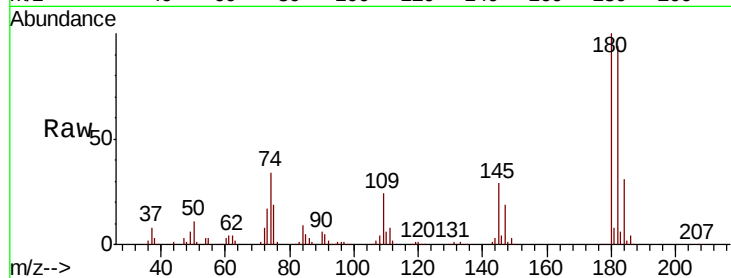




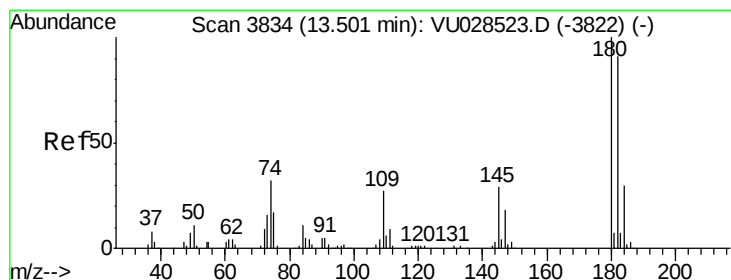
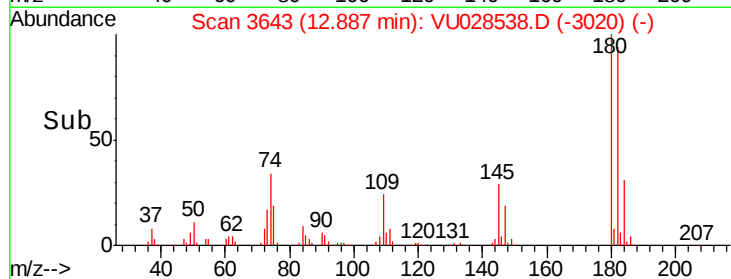
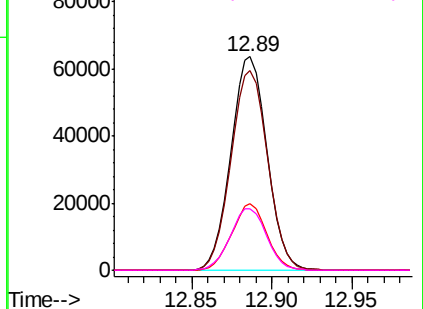
#67
 1,3,5-Trichlorobenzene
 Concen: 53.437 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU028538.D
 Acq: 07 Dec 2018 18:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

Tgt Ion:180 Resp: 97376
 Ion Ratio Lower Upper
 180 100
 182 95.2 75.0 112.6
 184 30.3 23.9 35.9
 145 29.3 23.8 35.8

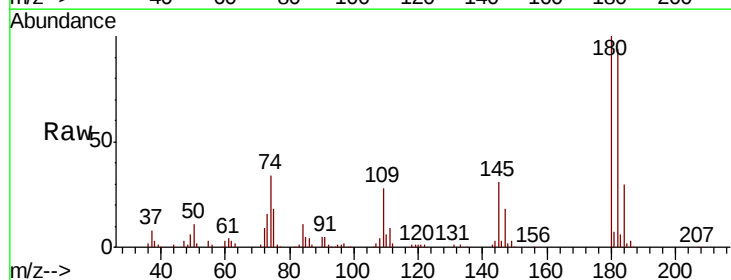


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

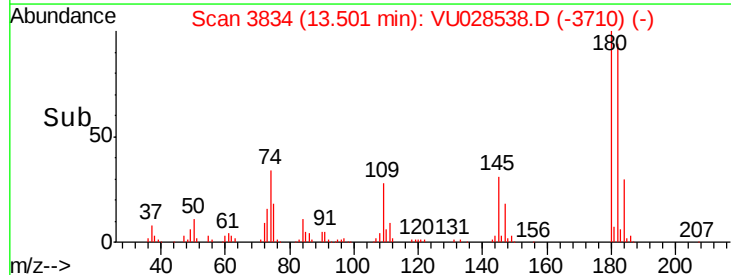
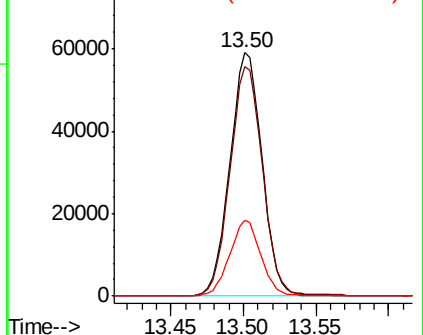


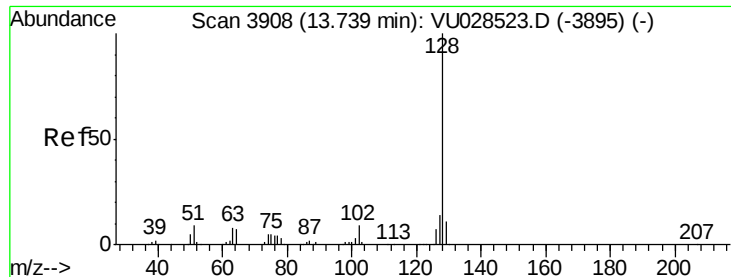
#68
 1,2,4-trichlorobenzene
 Concen: 53.772 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. -0.00 min
 Lab File: VU028538.D
 Acq: 07 Dec 2018 18:05

Tgt Ion:180 Resp: 91209
 Ion Ratio Lower Upper
 180 100
 182 95.3 74.8 112.2
 145 30.2 23.0 34.6



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: 51.686 ug/L

RT: 13.74 min Scan# 3908

Delta R.T. -0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

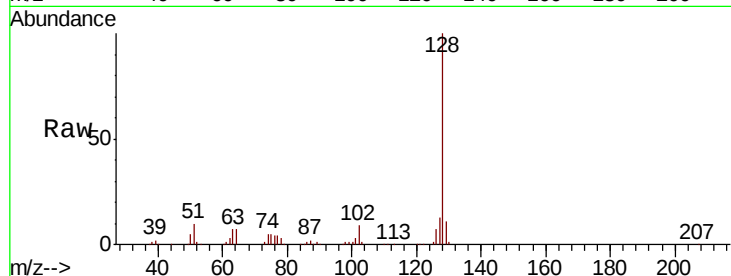
Tgt Ion:128 Resp: 302111

Ion Ratio Lower Upper

128 100

127 13.0 10.7 16.1

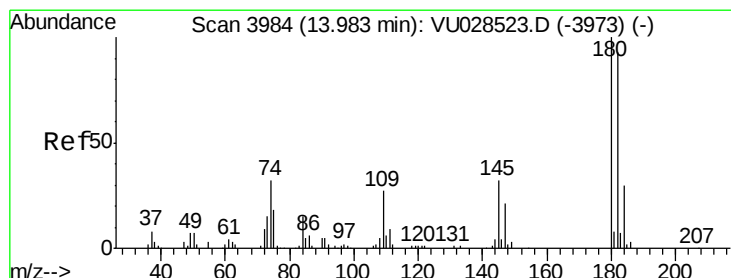
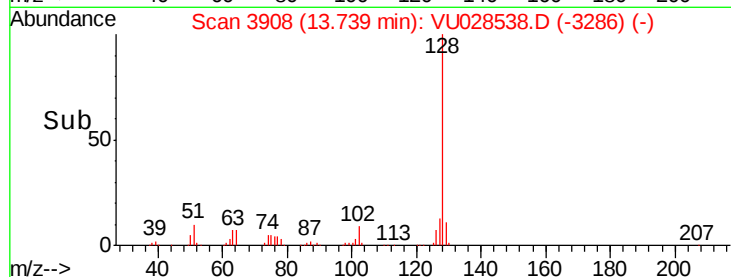
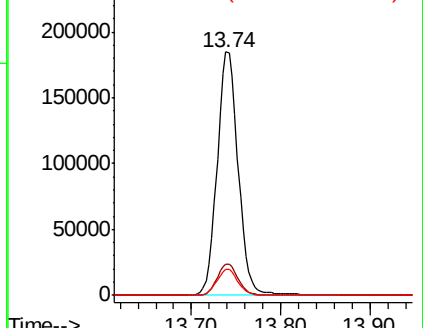
129 10.6 8.6 13.0



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: 53.208 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU028538.D

Acq: 07 Dec 2018 18:05

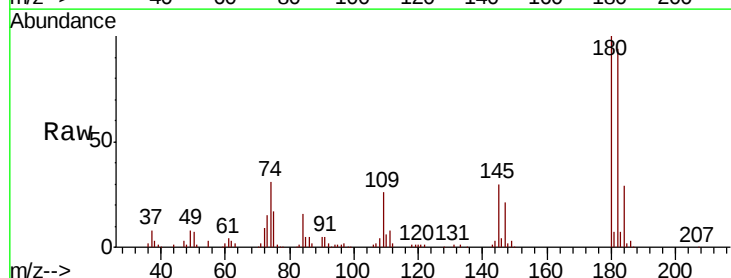
Tgt Ion:180 Resp: 90676

Ion Ratio Lower Upper

180 100

182 95.3 75.2 112.8

145 31.1 25.4 38.0



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

