

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072018\
 Data File : VU025531.D
 Acq On : 20 Jul 2018 10:28
 Operator : MD/SY
 Sample : VSTD10056
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 21 00:56:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jul 21 00:55:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	351068	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	337251	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	182413	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Vinyl Chloride-d3	1.40	65	201476	117.13	ug/L	0.00
7) Chloroethane-d5	1.68	69	159368	109.13	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	405404	107.87	ug/L	0.00
21) 2-Butanone-d5	4.18	46	312671	182.66	ug/L	0.00
24) Chloroform-d	4.65	84	440387	101.72	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	286835	98.18	ug/L	0.00
32) Benzene-d6	5.35	84	848608	103.14	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.34	67	269382	99.63	ug/L	0.00
41) Toluene-d8	7.57	98	825158	103.19	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	141955	100.62	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	244522	180.46	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.44	84	387130	97.06	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	360536	98.34	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	319003	105.737	ug/L	100
3) Chloromethane	1.33	50	236062	92.815	ug/L	100
5) Vinyl chloride	1.41	62	255677	98.291	ug/L	99
6) Bromomethane	1.62	94	106209	81.156	ug/L	98
8) Chloroethane	1.70	64	151307	97.020	ug/L	97
9) Trichlorofluoromethane	1.89	101	365186	95.876	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	205919	96.789	ug/L	98
12) 1,1-Dichloroethene	2.29	96	187872	97.611	ug/L	95
13) Acetone	2.32	43	308291	190.962	ug/L	99
14) Carbon disulfide	2.48	76	616261	98.852	ug/L	100
15) Methyl Acetate	2.62	43	231920	83.527	ug/L	100
16) Methylene chloride	2.71	84	229985	92.725	ug/L	97
17) trans-1,2-Dichloroethene	2.99	96	210562	93.644	ug/L	98
18) Methyl tert-butyl Ether	3.00	73	708590	90.556	ug/L	100
19) 1,1-Dichloroethane	3.45	63	402969	90.370	ug/L	100
20) cis-1,2-Dichloroethene	4.23	96	242998	89.215	ug/L	96
22) 2-Butanone	4.26	43	367337	175.246	ug/L	99
23) Bromochloromethane	4.55	128	130780	95.477	ug/L	98
25) Chloroform	4.68	83	425822	91.004	ug/L	98
27) 1,2-Dichloroethane	5.41	62	345760	88.990	ug/L	98
29) Cyclohexane	5.00	56	366683	93.646	ug/L	100
30) 1,1,1-Trichloroethane	4.92	97	392134	88.395	ug/L	99
31) Carbon tetrachloride	5.14	117	356493	91.036	ug/L	98
33) Benzene	5.39	78	898637	90.551	ug/L	100
34) Trichloroethene	6.19	95	237402	90.278	ug/L	96
35) Methylcyclohexane	6.42	83	397194	96.470	ug/L	98
37) 1,2-Dichloropropane	6.44	63	245129	90.017	ug/L	100
38) Bromodichloromethane	6.76	83	329468	90.136	ug/L	97
39) cis-1,3-Dichloropropene	7.27	75	397242	94.027	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	661950	169.764	ug/L	99

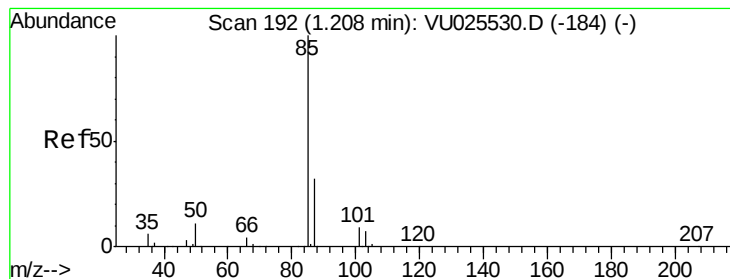
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072018\
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 Quant Title : VOC Analysis
 QLast Update : Sat Jul 21 00:55:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	994813	93.510	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	379150	93.749	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	232243	89.745	ug/L	99
46) Tetrachloroethene	8.23	164	209867	93.499	ug/L	99
48) 2-Hexanone	8.36	43	552370	175.941	ug/L	99
49) Dibromochloromethane	8.48	129	291407	93.301	ug/L	99
50) 1,2-Dibromoethane	8.59	107	254972	89.666	ug/L	98
51) Chlorobenzene	9.12	112	662378	92.932	ug/L	99
52) Ethylbenzene	9.25	91	1121669	94.395	ug/L	100
53) m,p-Xylene	9.38	106	437070	95.681	ug/L	99
54) o-xylene	9.78	106	433330	94.402	ug/L	97
55) Styrene	9.80	104	730825	96.468	ug/L	100
56) Isopropylbenzene	10.17	105	1141367	95.666	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	384527	86.860	ug/L	98
59) 1,2,3-Trichloropropane	10.50	75	290634	81.639	ug/L	99
61) Bromoform	9.96	173	222354	89.027	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	543132	90.218	ug/L	100
63) 1,4-Dichlorobenzene	11.51	146	556098	91.102	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	563397	88.867	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	88393	77.535	ug/L	96
67) 1,3,5-Trichlorobenzene	12.89	180	433184	92.315	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	376967	91.099	ug/L	98
69) Naphthalene	13.74	128	1164410	84.371	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	393072	89.212	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 105.737 ug/L

RT: 1.21 min Scan# 192

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

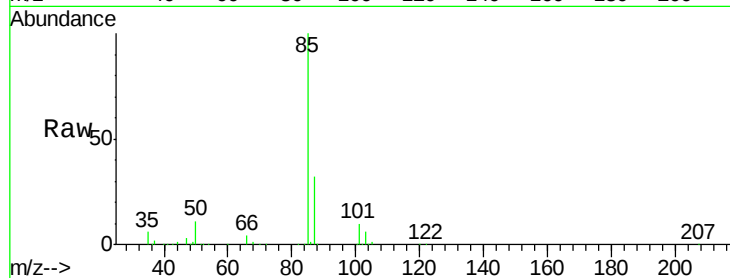
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 319003

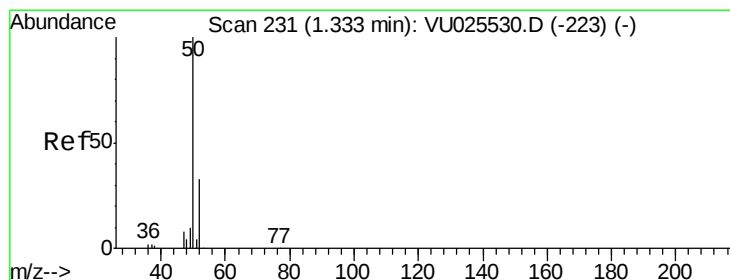
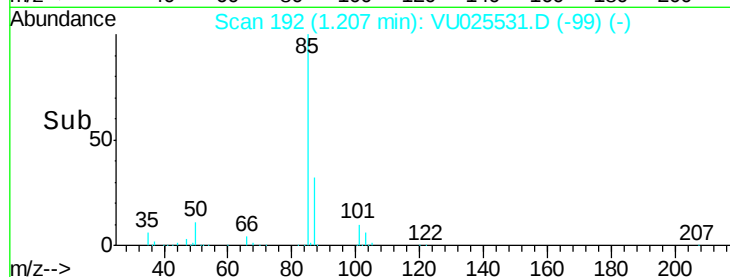
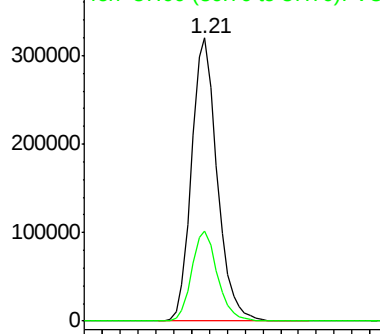
Ion Ratio Lower Upper

85 100

87 32.0 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU0
Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 92.815 ug/L

RT: 1.33 min Scan# 231

Delta R.T. -0.00 min

Lab File: VU025531.D

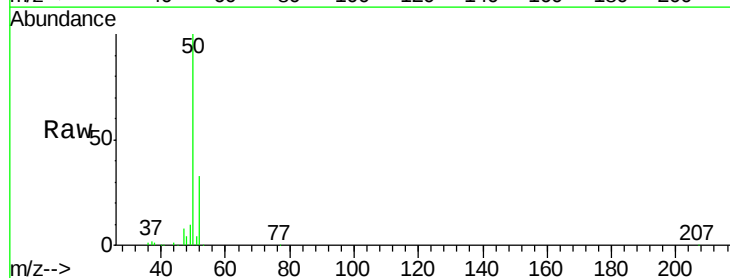
Acq: 20 Jul 2018 10:28

Tgt Ion: 50 Resp: 236062

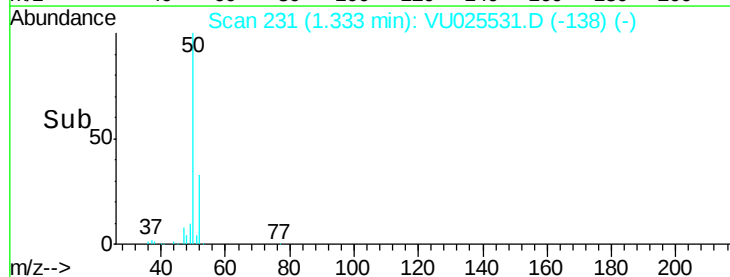
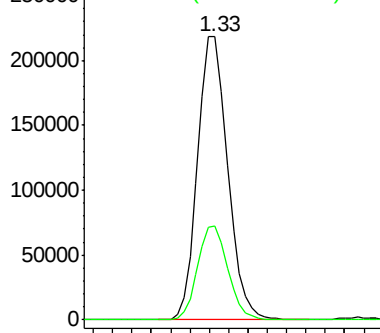
Ion Ratio Lower Upper

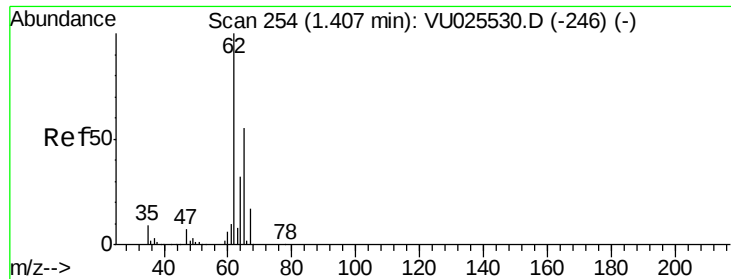
50 100

52 33.3 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VU0
Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 98.291 ug/L

RT: 1.41 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

Instrument :

MSVOA_U

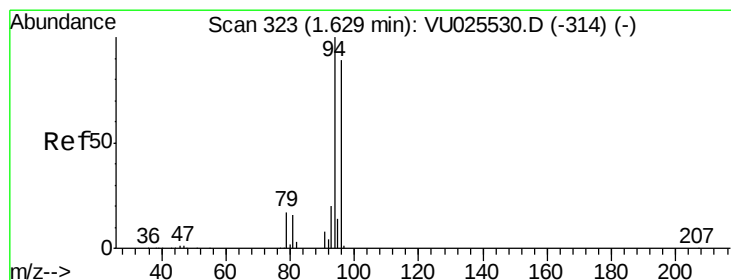
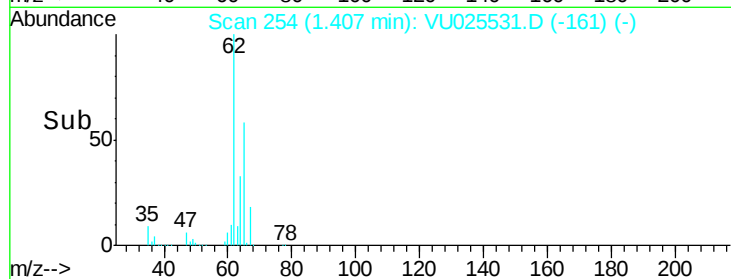
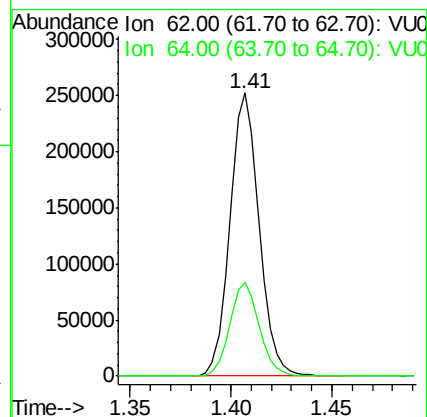
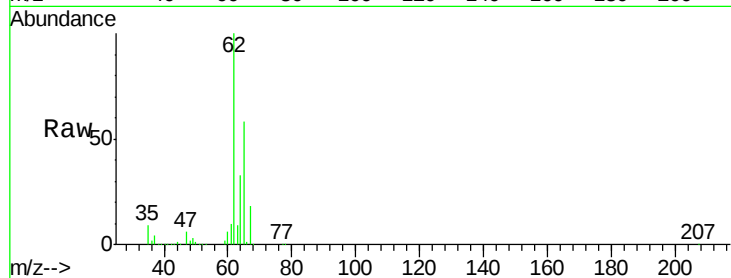
ClientSampled :

Tot Ion: 62 Resp: 255677

Ion Ratio Lower Upper

62 100

64 33.0 22.7 42.1



#6

Bromomethane

Concen: 81.156 ug/L

RT: 1.62 min Scan# 321

Delta R.T. -0.01 min

Lab File: VU025531.D

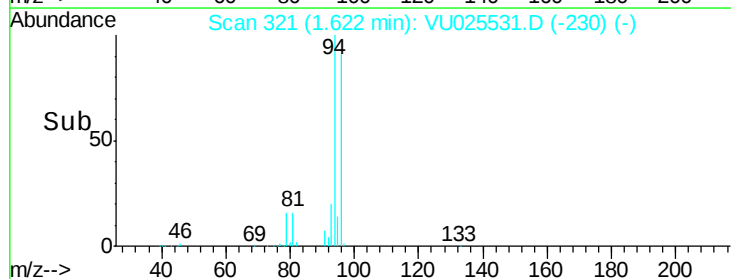
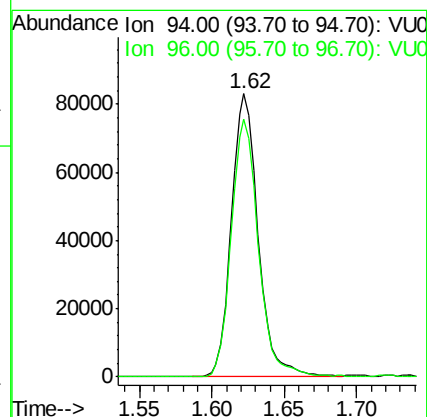
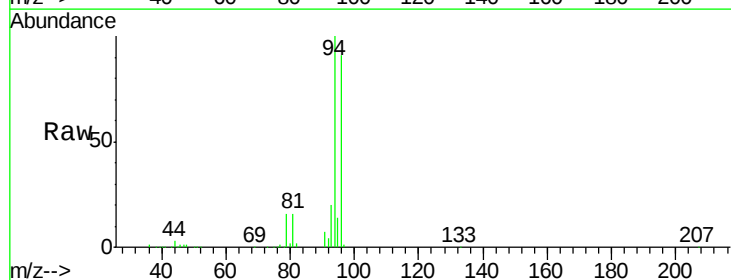
Acq: 20 Jul 2018 10:28

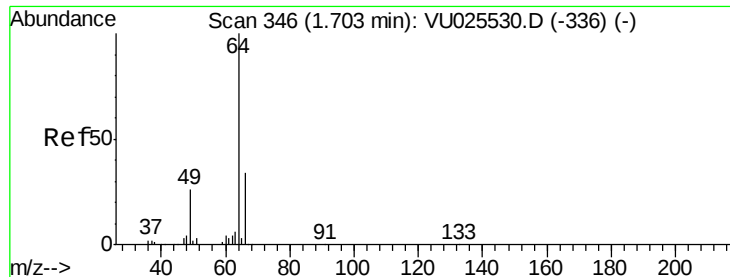
Tgt Ion: 94 Resp: 106209

Ion Ratio Lower Upper

94 100

96 91.1 62.4 115.8





#8

Chloroethane

Concen: 97.020 ug/L

RT: 1.70 min Scan# 344

Delta R.T. -0.01 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

Instrument :

MSVOA_U

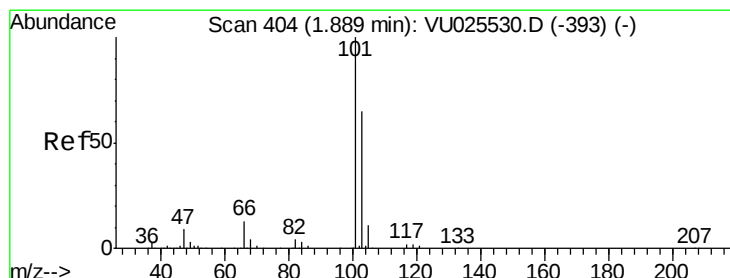
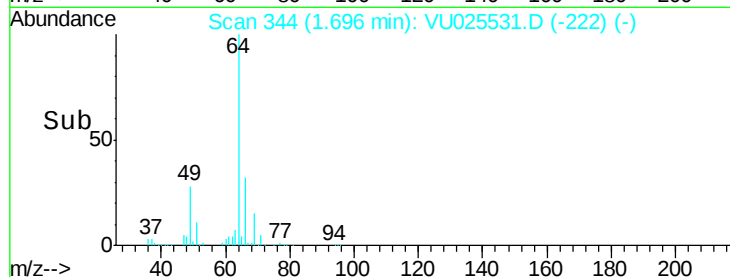
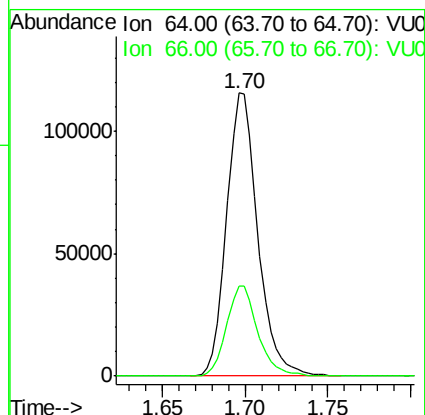
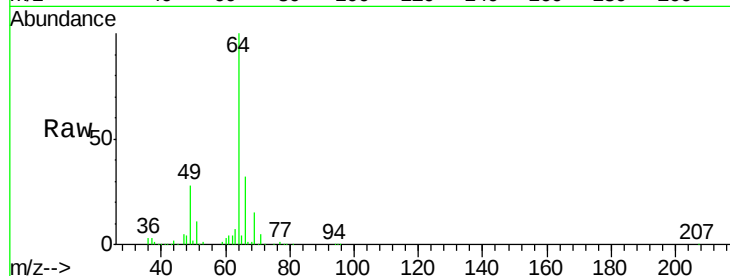
ClientSampled :

Tot Ion: 64 Resp: 151307

Ion Ratio Lower Upper

64 100

66 32.0 23.5 43.7



#9

Trichlorofluoromethane

Concen: 95.876 ug/L

RT: 1.89 min Scan# 404

Delta R.T. -0.00 min

Lab File: VU025531.D

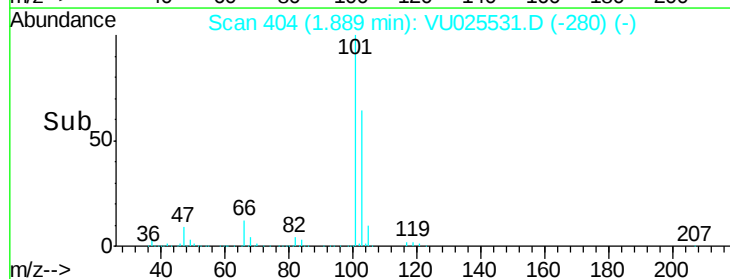
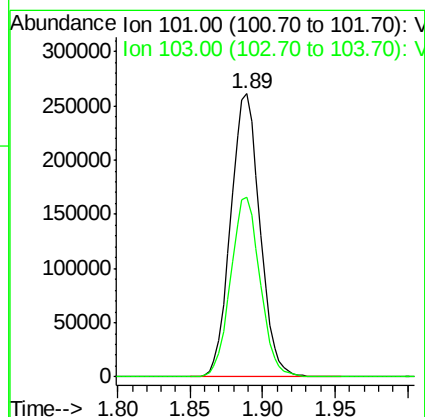
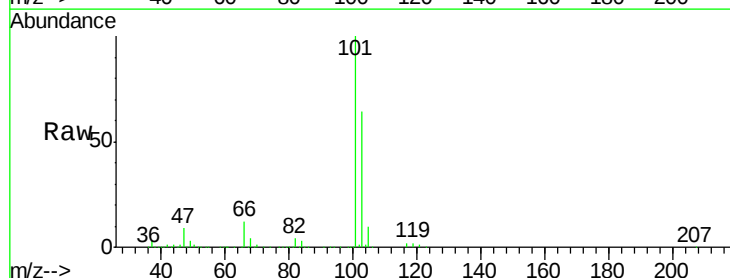
Acq: 20 Jul 2018 10:28

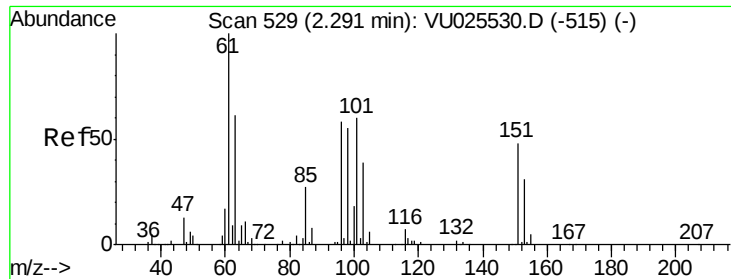
Tgt Ion:101 Resp: 365186

Ion Ratio Lower Upper

101 100

103 63.9 52.0 78.0





#10

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

Concen: 96.789 ug/L

RT: 2.29 min Scan# 529

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

Instrument :

MSVOA_U

ClientSampleId :

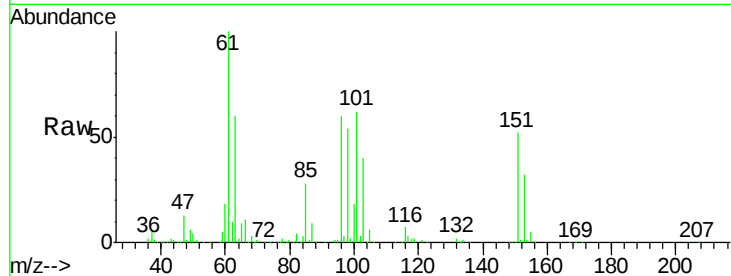
Tot Ion:101 Resp: 205919

Ion Ratio Lower Upper

101 100

85 44.9 35.5 53.3

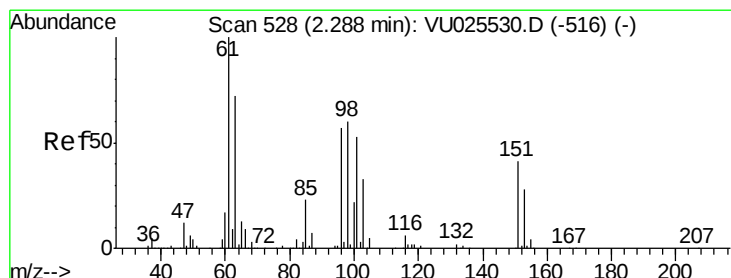
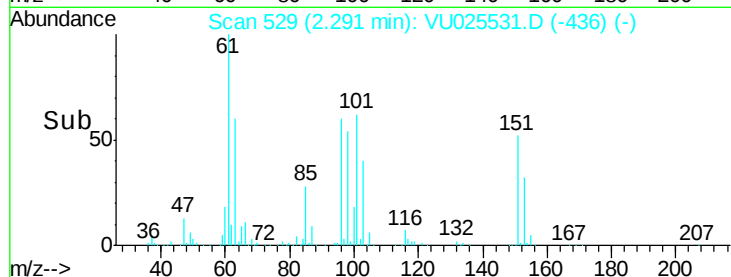
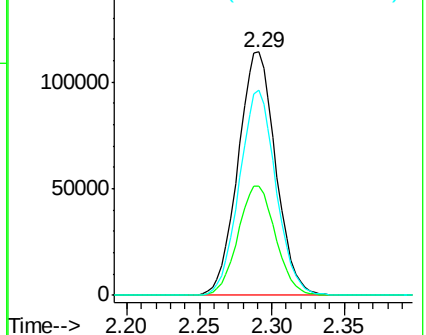
151 82.0 63.5 95.3



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: 97.611 ug/L

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

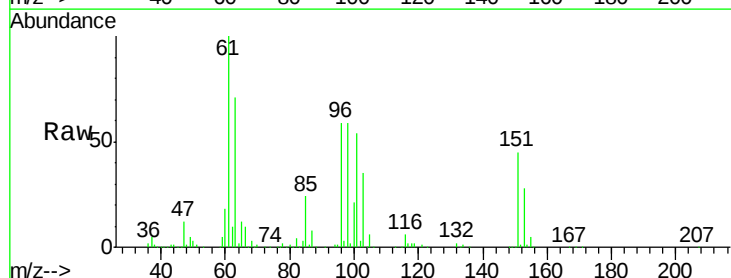
Tgt Ion: 96 Resp: 187872

Ion Ratio Lower Upper

96 100

61 170.8 122.5 227.5

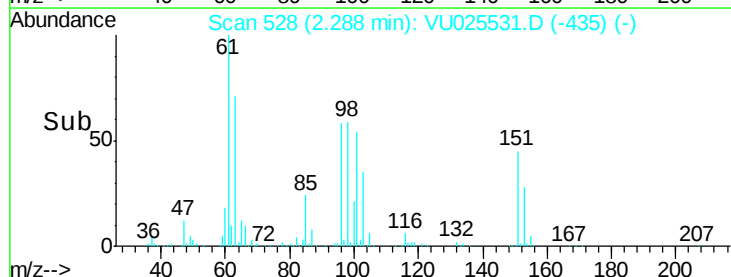
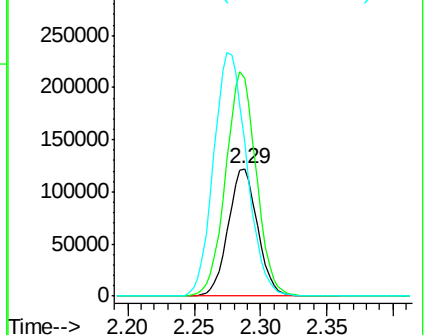
63 120.6 90.9 168.9

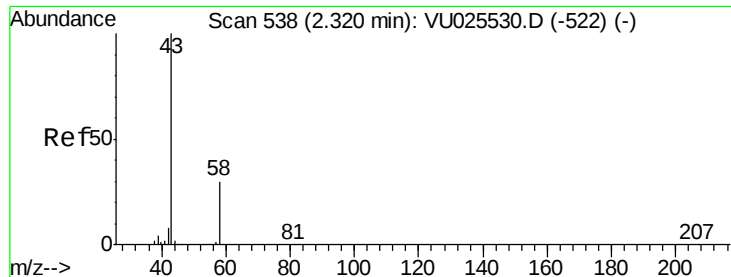


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 190.962 ug/L

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

Instrument :

MSVOA_U

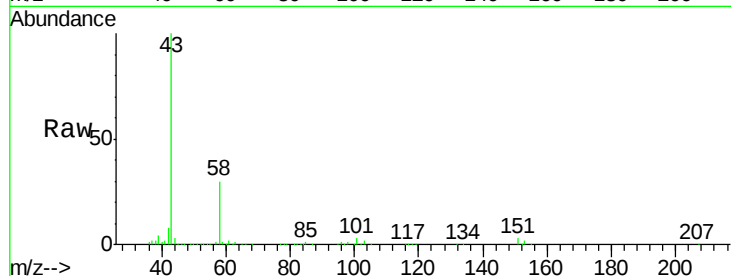
ClientSampleId :

Tot Ion: 43 Resp: 308291

Ion Ratio Lower Upper

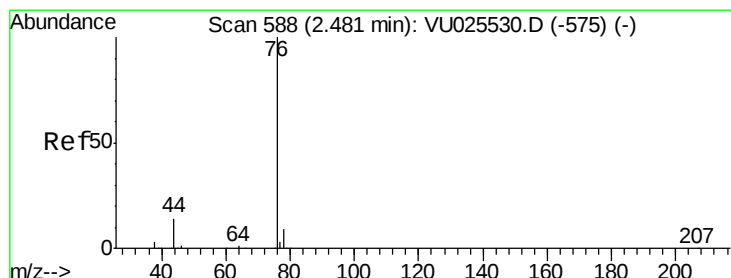
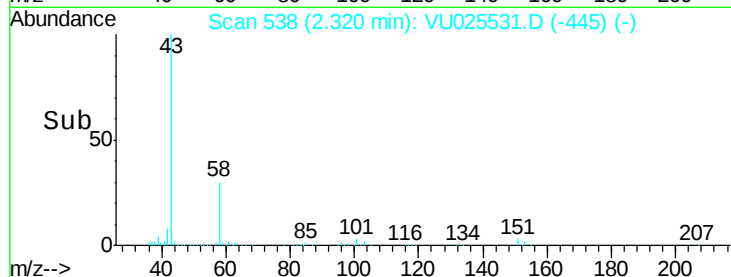
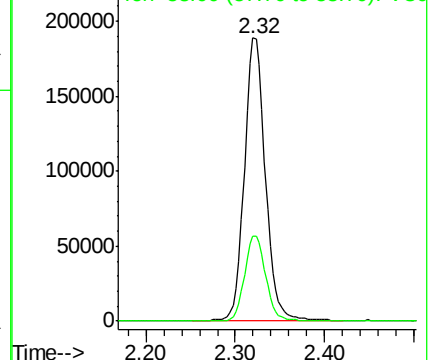
43 100

58 30.0 0.0 61.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 98.852 ug/L

RT: 2.48 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU025531.D

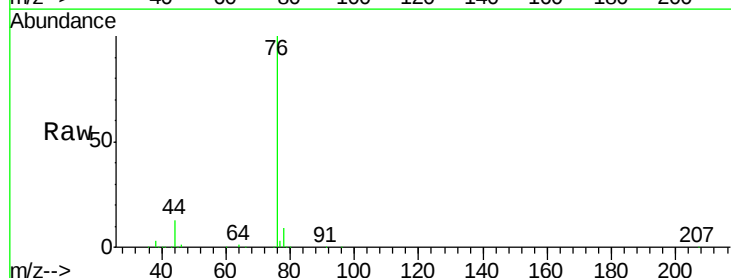
Acq: 20 Jul 2018 10:28

Tgt Ion: 76 Resp: 616261

Ion Ratio Lower Upper

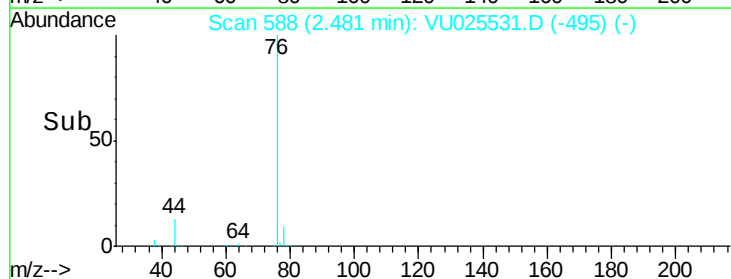
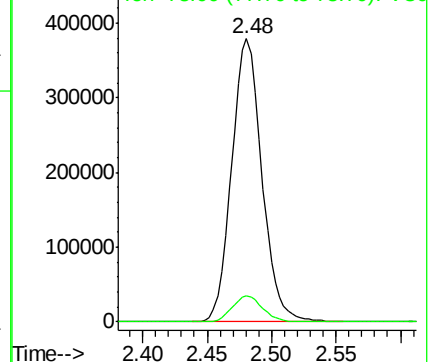
76 100

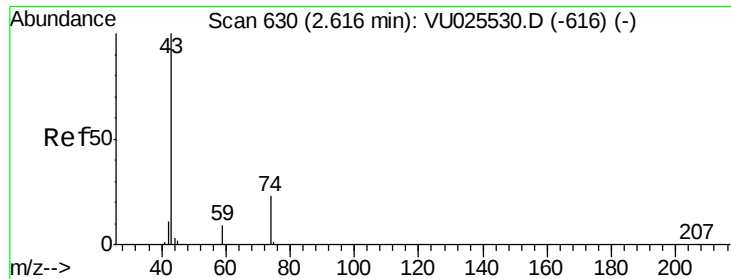
78 9.3 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

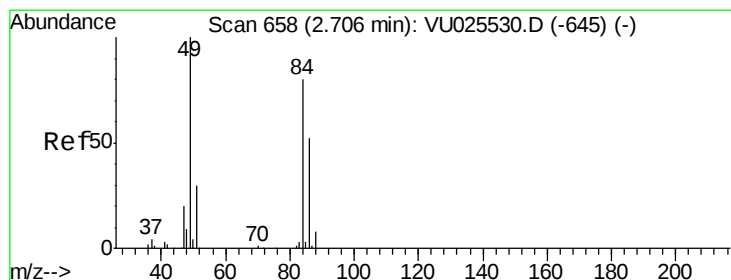
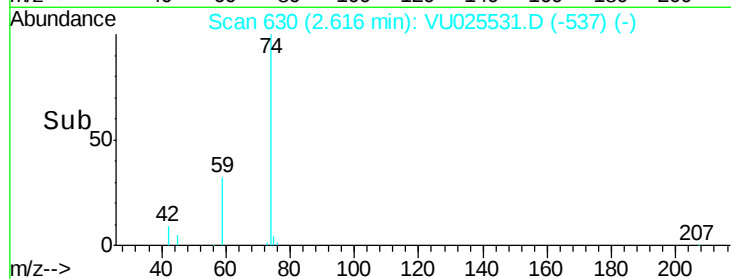
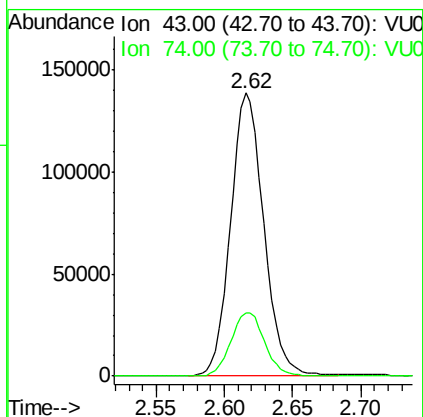
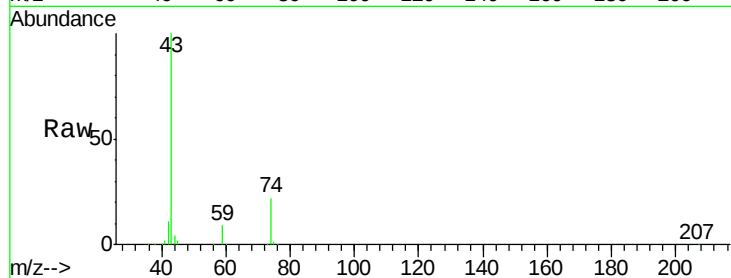




#15
Methvl Acetate
Concen: 83.527 ug/L
RT: 2.62 min Scan# 630
Delta R.T. -0.00 min
Lab File: VU025531.D
Acq: 20 Jul 2018 10:28

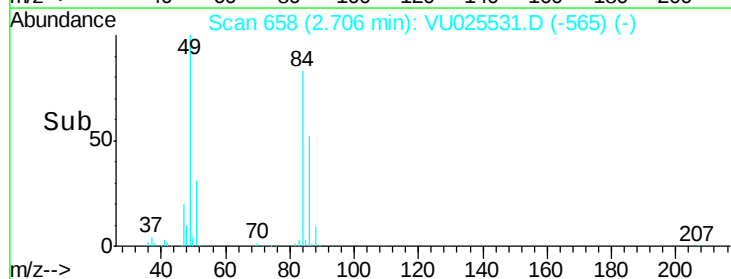
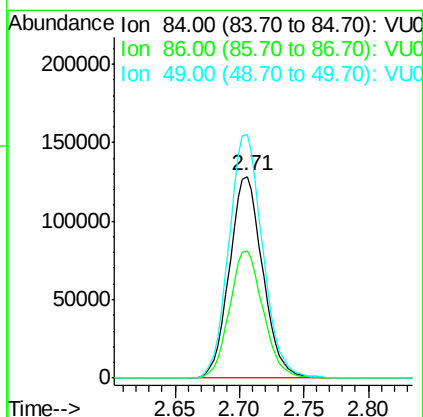
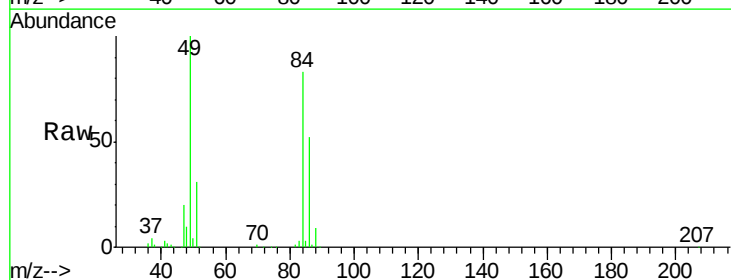
Instrument :
MSVOA_U
ClientSampled :

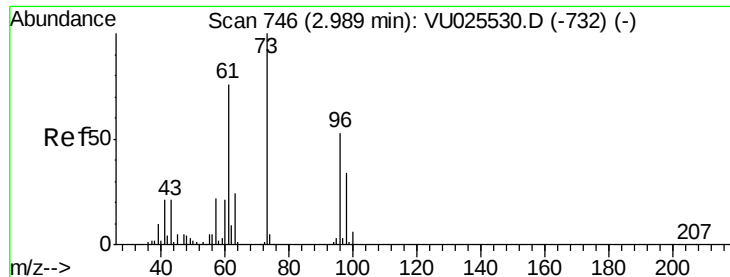
Tot Ion: 43 Resp: 231920
Ion Ratio Lower Upper
43 100
74 23.0 18.3 27.5



#16
Methylene chloride
Concen: 92.725 ug/L
RT: 2.71 min Scan# 658
Delta R.T. -0.00 min
Lab File: VU025531.D
Acq: 20 Jul 2018 10:28

Tgt Ion: 84 Resp: 229985
Ion Ratio Lower Upper
84 100
86 63.2 45.6 84.6
49 120.8 87.0 161.6





#17

trans-1,2-Dichloroethene

Concen: 93.644 ug/L

RT: 2.99 min Scan# 745

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

Instrument :
MSVOA_U
ClientSampleId :

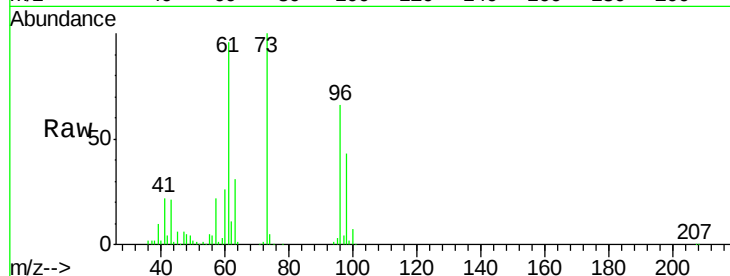
Tot Ion: 96 Resp: 210562

Ion Ratio Lower Upper

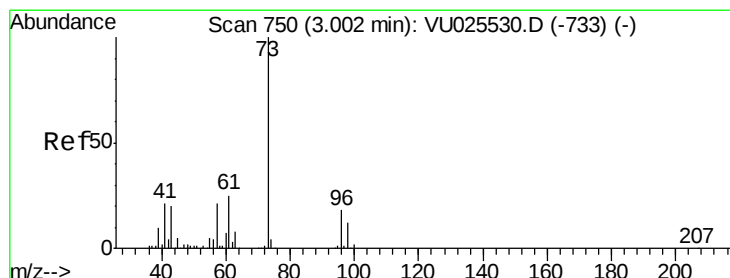
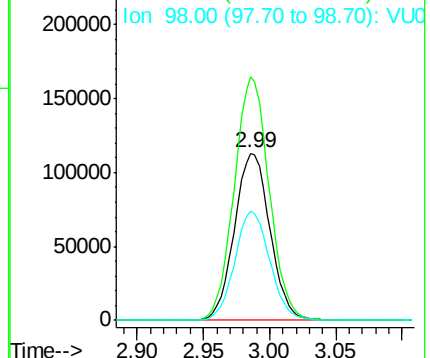
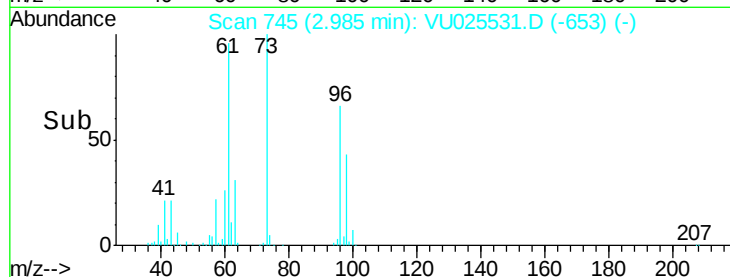
96 100

61 145.9 100.0 185.8

98 65.2 44.7 83.1



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: 90.556 ug/L

RT: 3.00 min Scan# 750

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

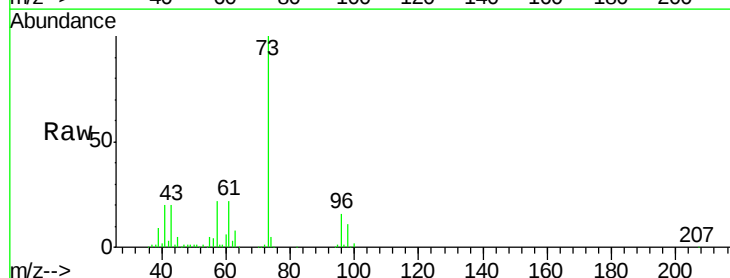
Tgt Ion: 73 Resp: 708590

Ion Ratio Lower Upper

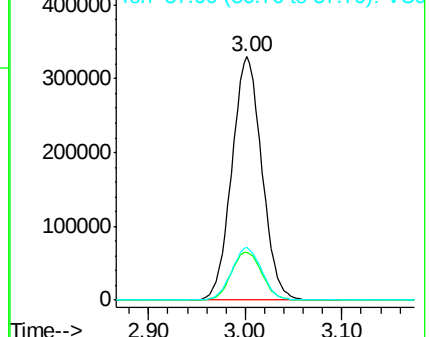
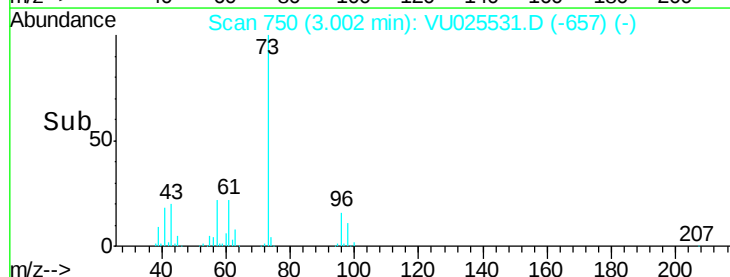
73 100

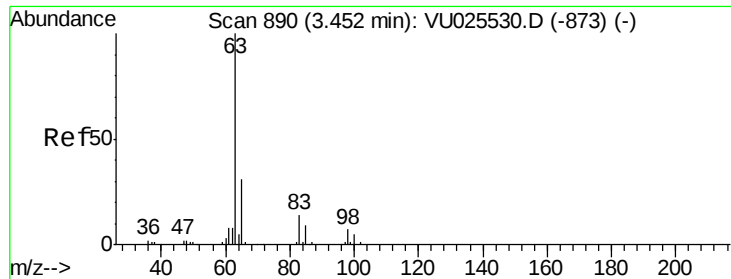
43 20.2 16.2 24.2

57 21.7 17.1 25.7



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





#19

1,1-Dichloroethane

Concen: 90.370 ug/L

RT: 3.45 min Scan# 889

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

Instrument :

MSVOA_U

ClientSampleId :

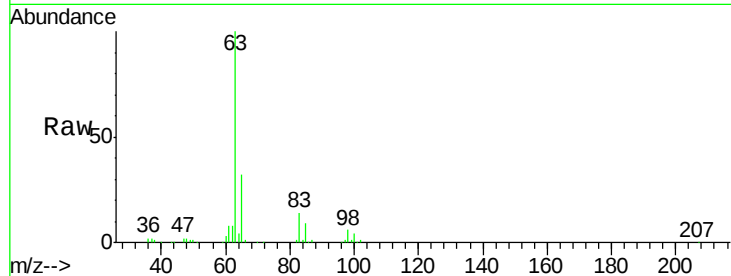
Tot Ion: 63 Resp: 402969

Ion Ratio Lower Upper

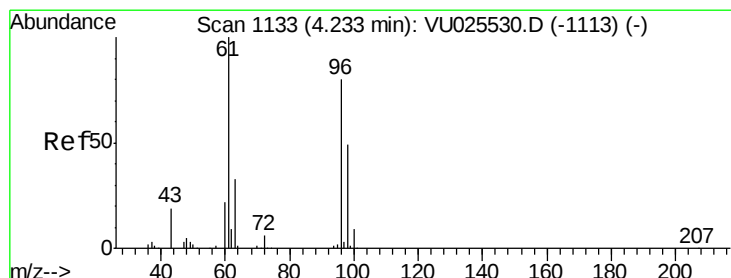
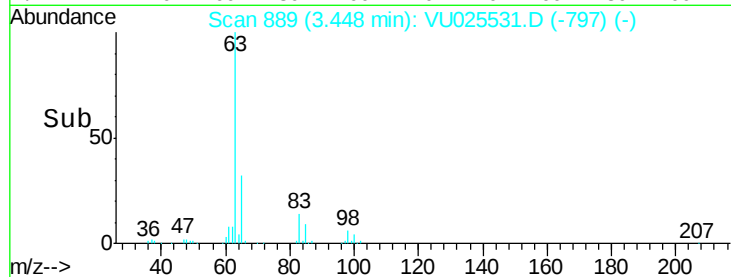
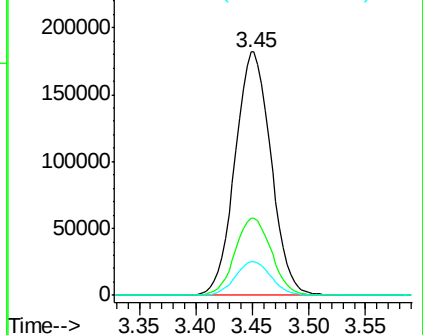
63 100

65 31.6 22.0 41.0

83 13.8 9.6 17.8



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: 89.215 ug/L

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

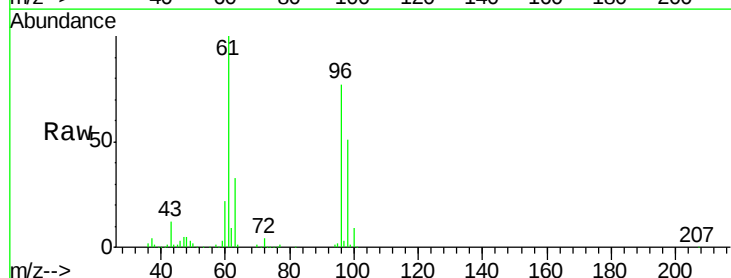
Tgt Ion: 96 Resp: 242998

Ion Ratio Lower Upper

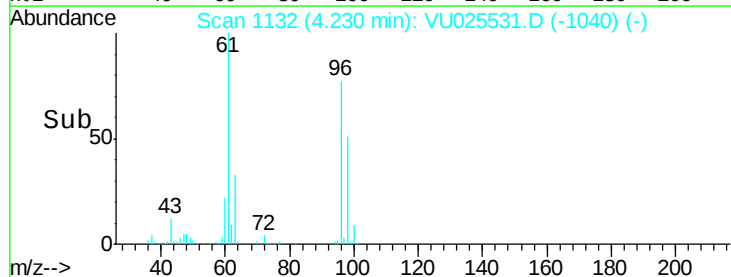
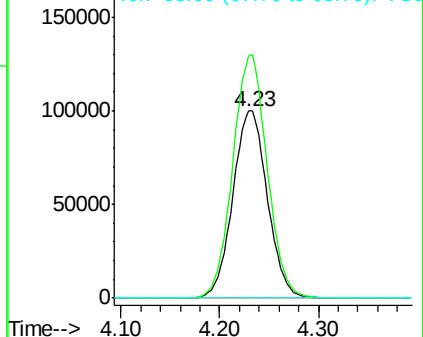
96 100

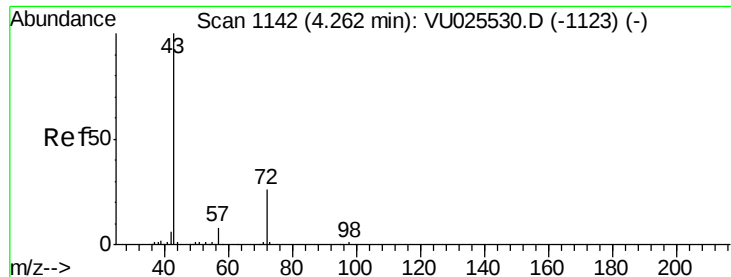
61 129.9 87.4 162.2

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





#22

2-Butanone

Concen: 175.246 ug/L

RT: 4.26 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

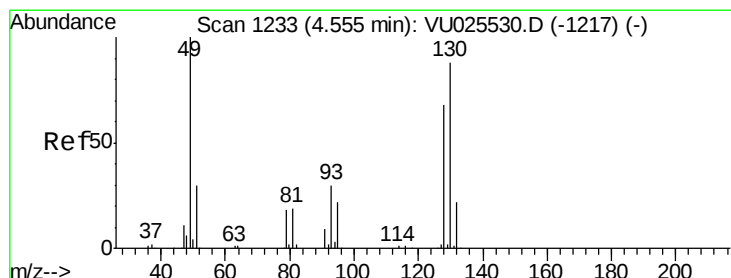
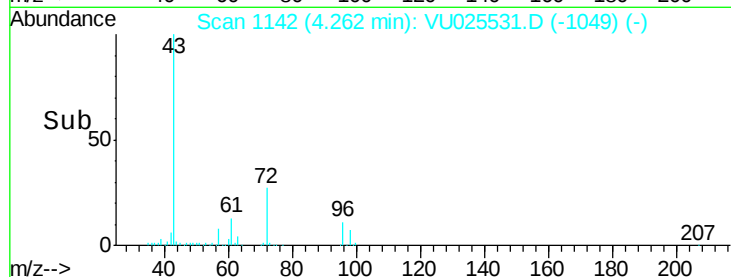
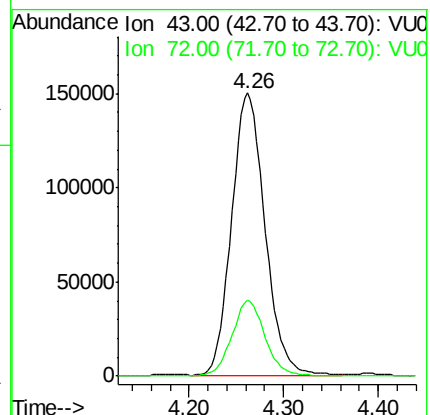
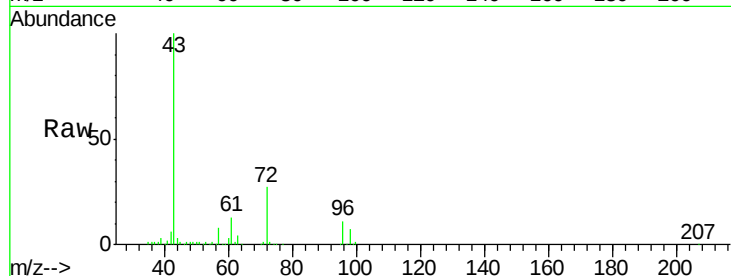
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 367337

Ion Ratio Lower Upper

43 100

72 26.8 13.6 40.8



#23

Bromochloromethane

Concen: 95.477 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

Tgt Ion: 128 Resp: 130780

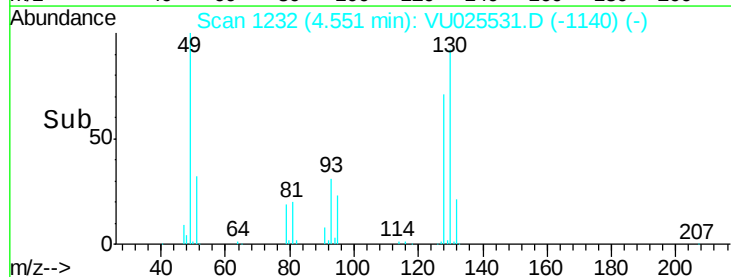
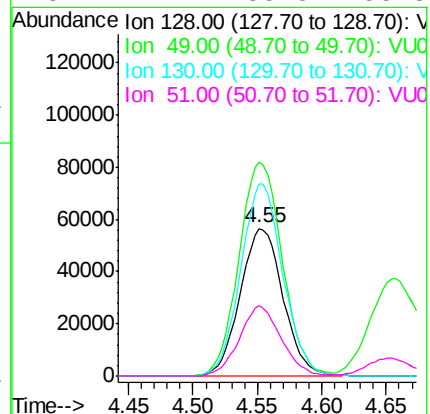
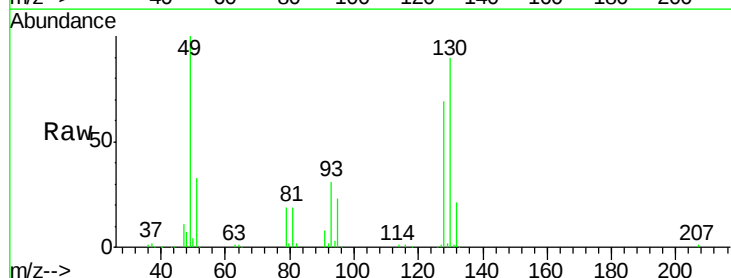
Ion Ratio Lower Upper

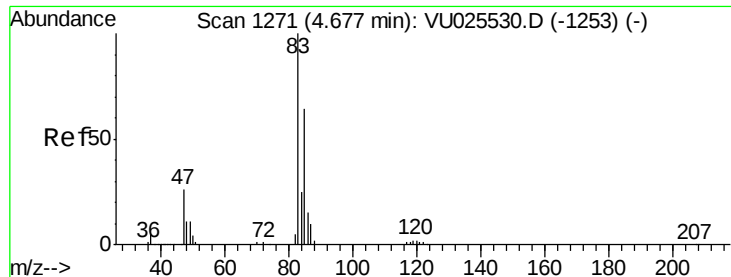
128 100

49 144.8 103.3 191.8

130 129.8 90.4 167.8

51 47.4 35.5 53.3





#25

Chloroform

Concen: 91.004 ug/L

RT: 4.68 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

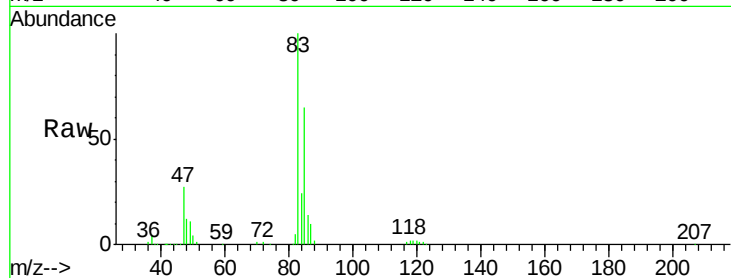
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 83 Resp: 425822

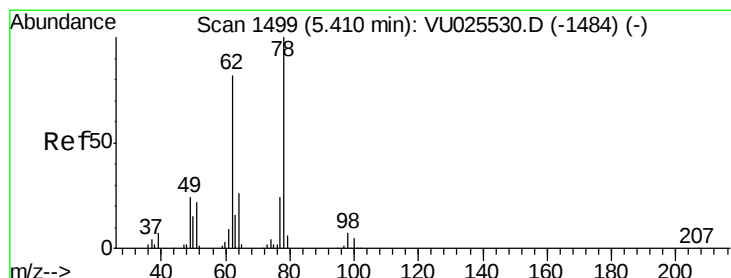
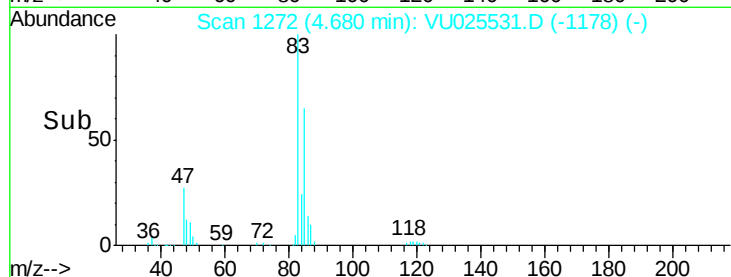
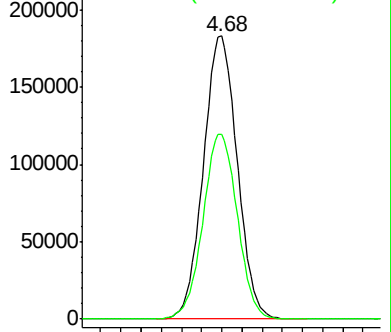
Ion Ratio Lower Upper

83 100

85 65.5 45.0 83.6



Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 85.00 (84.70 to 85.70): VU0



#27

1,2-Dichloroethane

Concen: 88.990 ug/L

RT: 5.41 min Scan# 1499

Delta R.T. -0.00 min

Lab File: VU025531.D

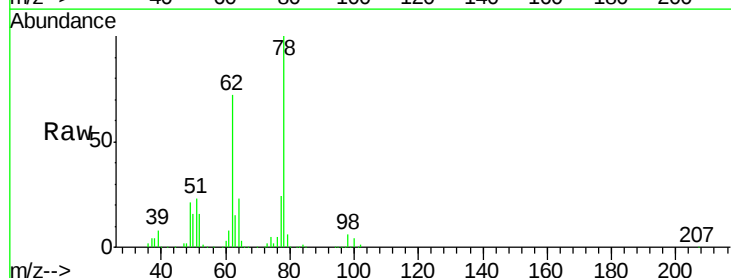
Acq: 20 Jul 2018 10:28

Tgt Ion: 62 Resp: 345760

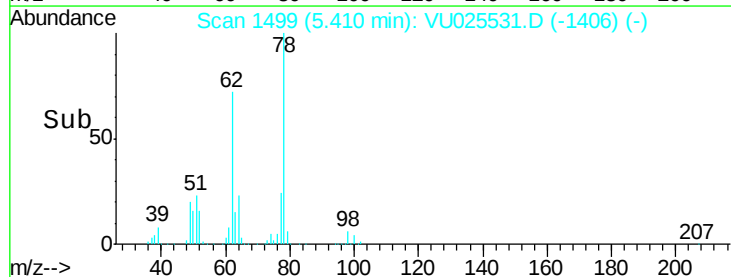
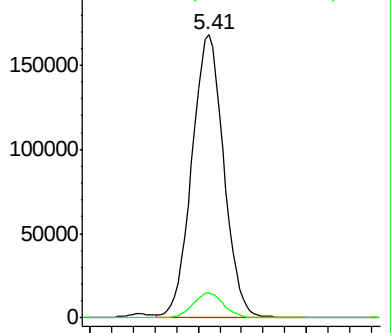
Ion Ratio Lower Upper

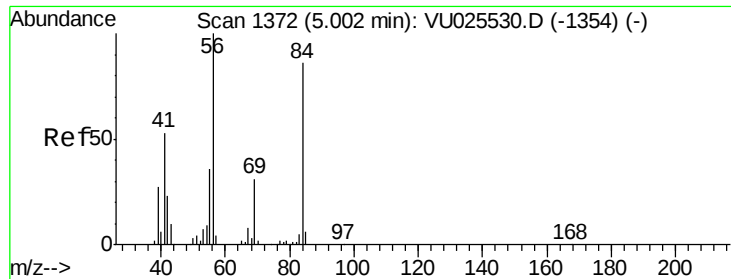
62 100

98 8.7 6.5 9.7



Abundance Ion 62.00 (61.70 to 62.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

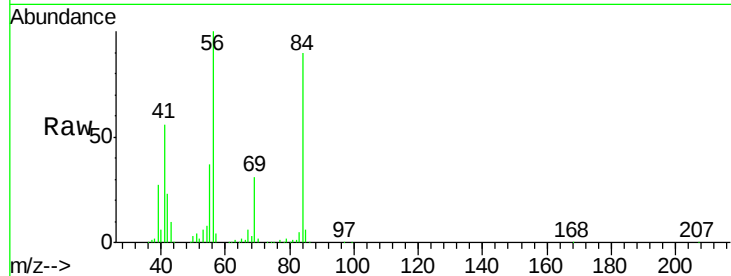




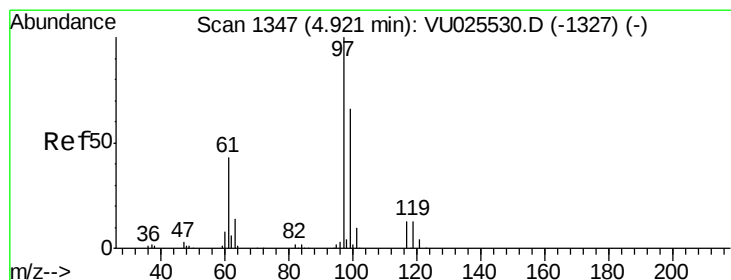
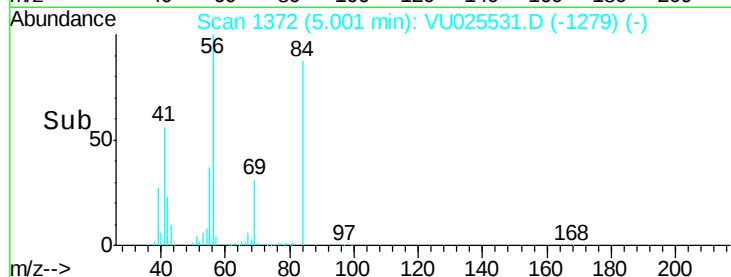
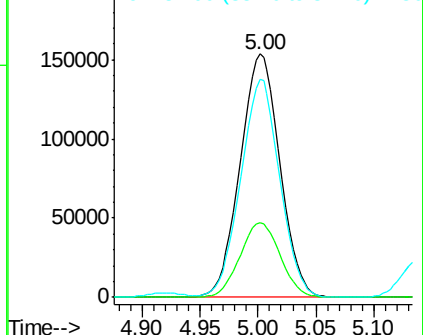
#29
Cyclohexane
Concen: 93.646 ug/L
RT: 5.00 min Scan# 1372
Delta R.T. -0.00 min
Lab File: VU025531.D
Acq: 20 Jul 2018 10:28

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 366683
Ion Ratio Lower Upper
56 100
69 31.0 24.8 37.2
84 88.2 70.6 106.0

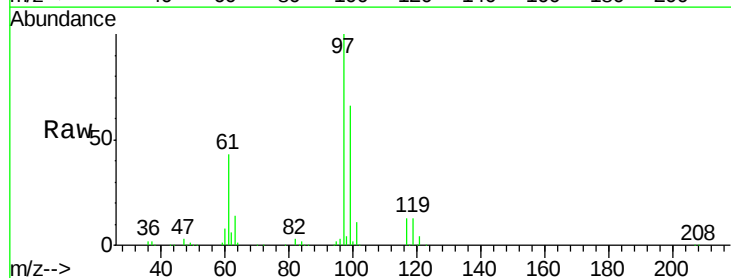


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

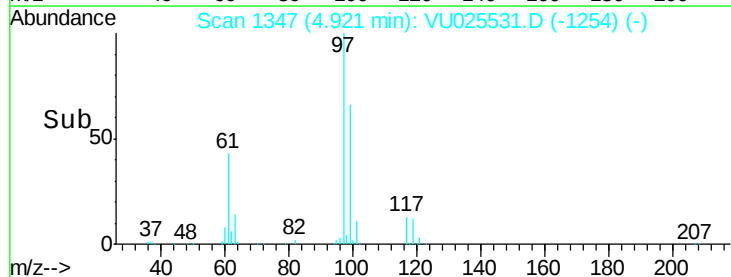
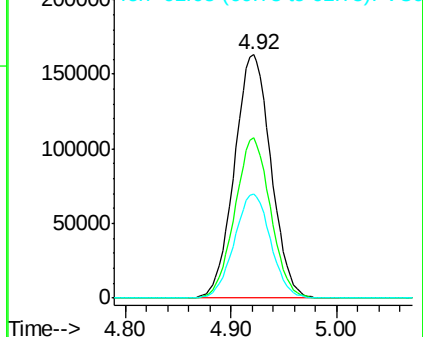


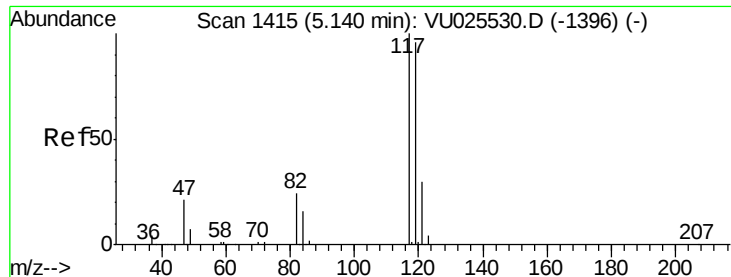
#30
1,1,1-Trichloroethane
Concen: 88.395 ug/L
RT: 4.92 min Scan# 1347
Delta R.T. -0.00 min
Lab File: VU025531.D
Acq: 20 Jul 2018 10:28

Tgt Ion: 97 Resp: 392134
Ion Ratio Lower Upper
97 100
99 64.4 52.4 78.6
61 42.6 34.6 52.0



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: 91.036 ug/L

RT: 5.14 min Scan# 1415

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

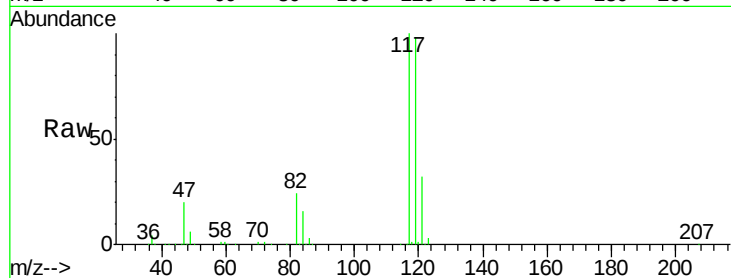
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 356493

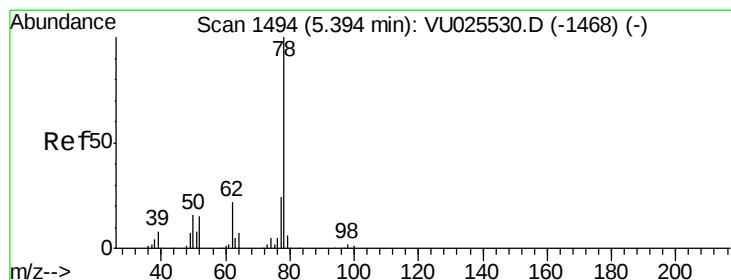
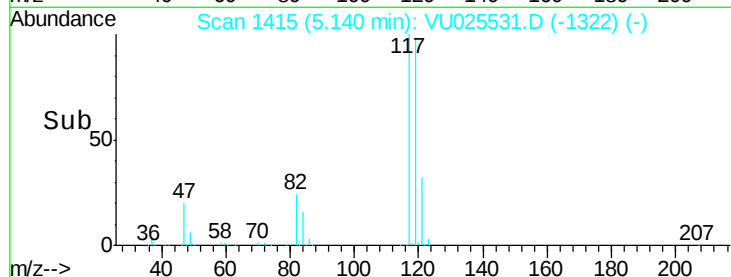
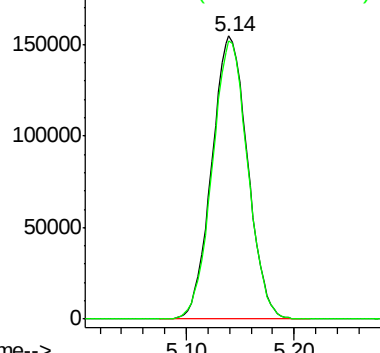
Ion Ratio Lower Upper

117 100

119 97.4 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 90.551 ug/L

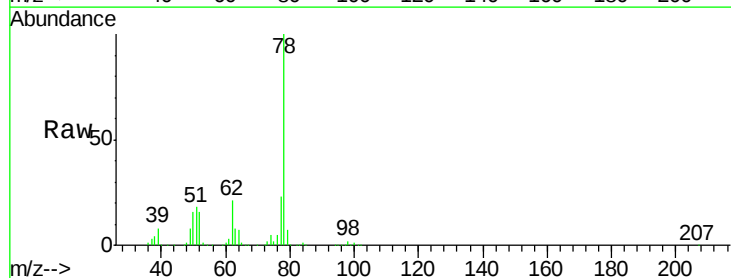
RT: 5.39 min Scan# 1494

Delta R.T. -0.00 min

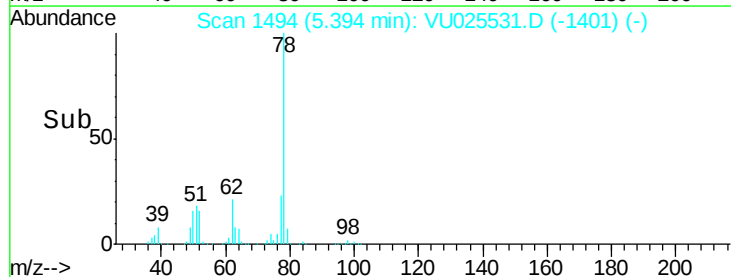
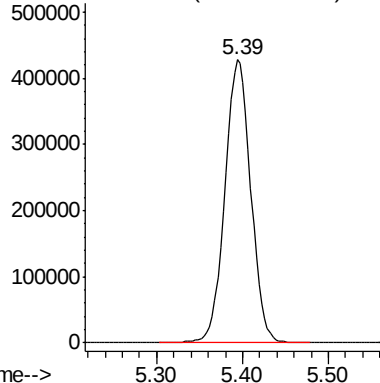
Lab File: VU025531.D

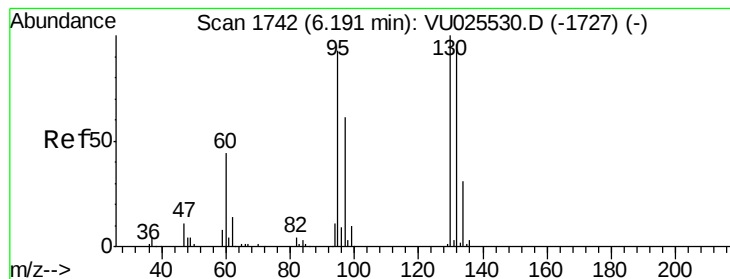
Acq: 20 Jul 2018 10:28

Tgt Ion: 78 Resp: 898637



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 90.278 ug/L

RT: 6.19 min Scan# 1742

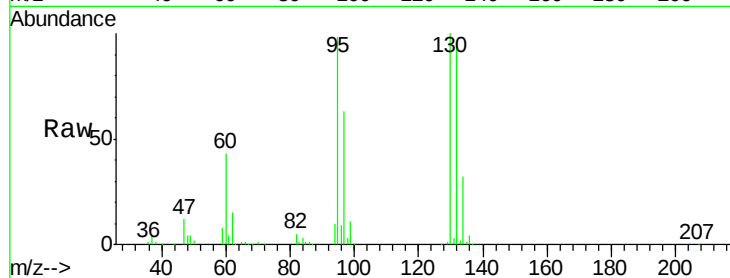
Delta R.T. -0.00 min

Lab File: VU025531.D

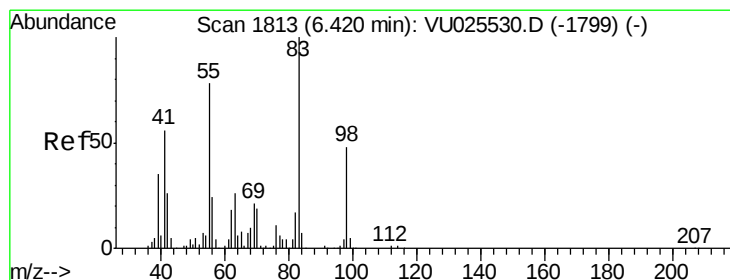
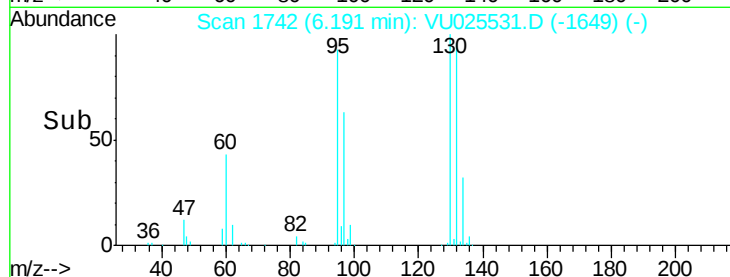
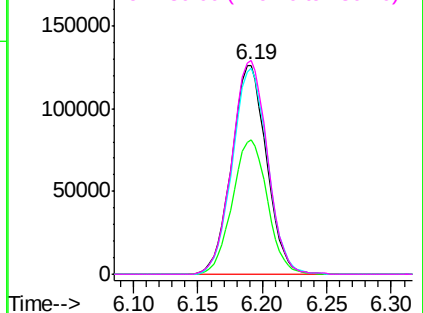
Acq: 20 Jul 2018 10:28

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	95	Resp:	237402
Ion	Ratio	Lower	Upper
95	100		
97	64.1	45.9	85.3
132	98.4	72.2	134.2
130	102.1	74.9	139.1



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: 96.470 ug/L

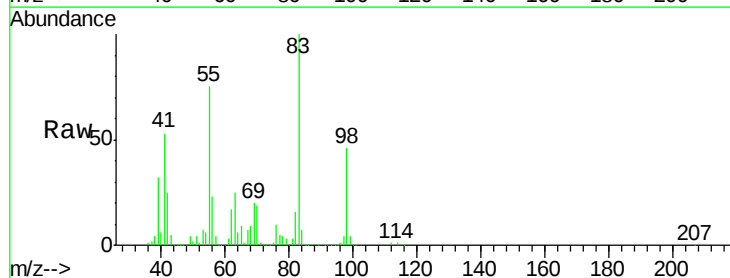
RT: 6.42 min Scan# 1813

Delta R.T. -0.00 min

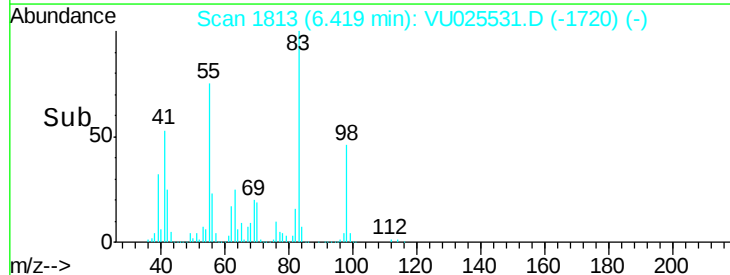
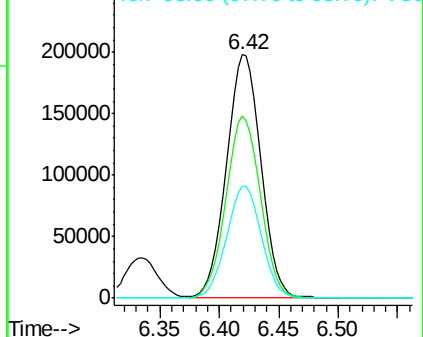
Lab File: VU025531.D

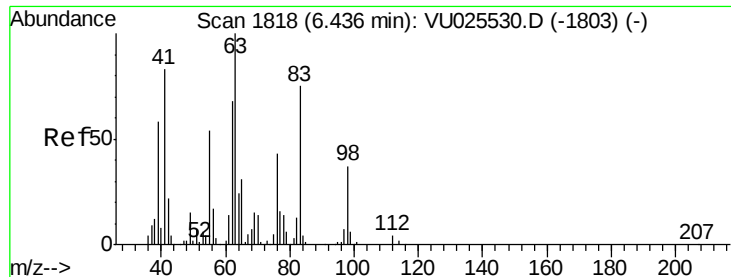
Acq: 20 Jul 2018 10:28

Tgt Ion:	83	Resp:	397194
Ion	Ratio	Lower	Upper
83	100		
55	75.0	61.1	91.7
98	46.5	38.6	57.8



Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

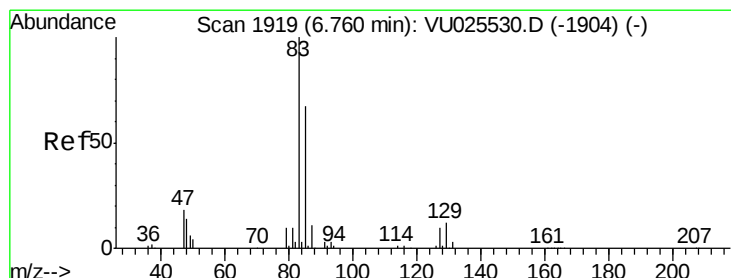
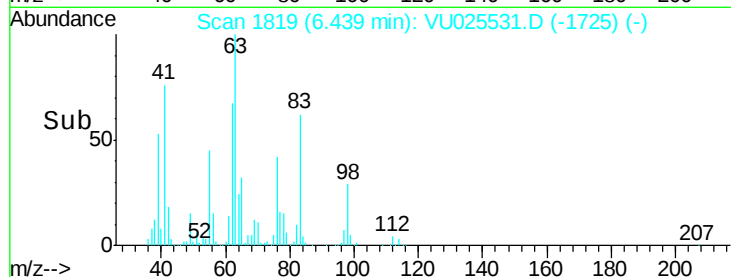
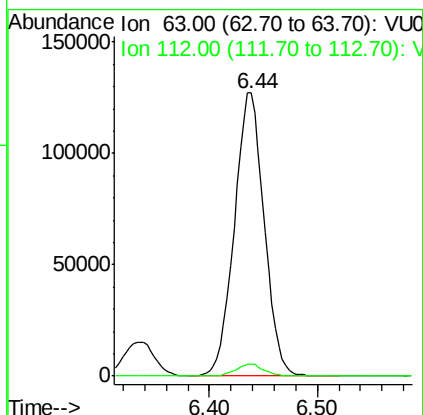
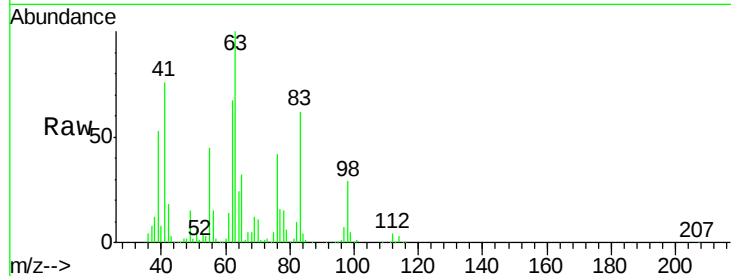




#37
 1,2-Dichloropropane
 Concen: 90.017 ug/L
 RT: 6.44 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: VU025531.D
 Acq: 20 Jul 2018 10:28

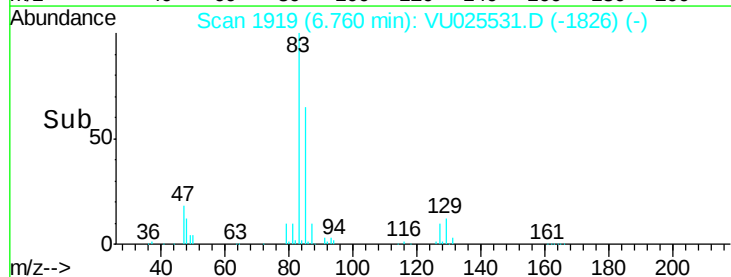
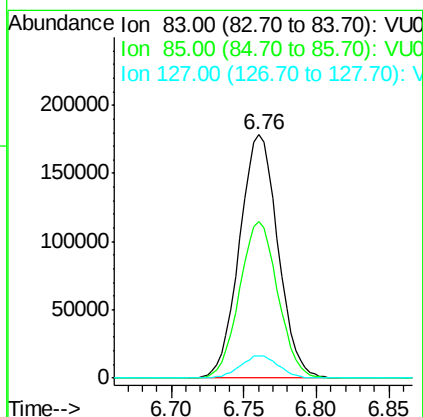
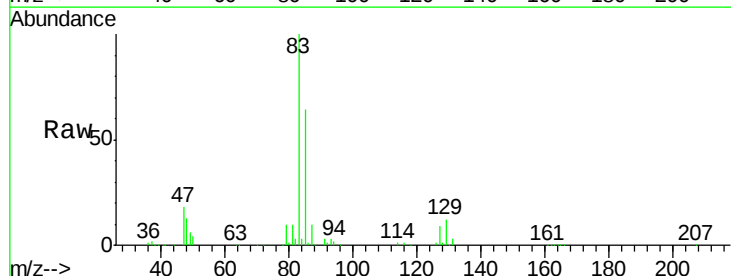
Instrument :
 MSVOA_U
 ClientSampled :

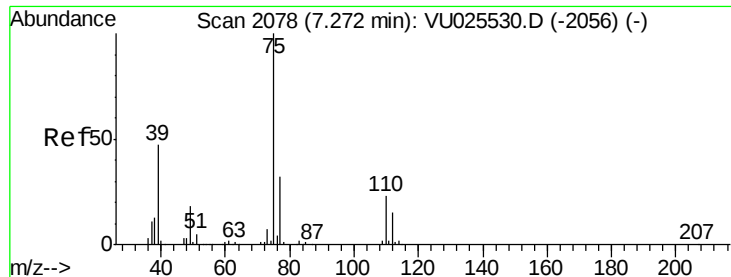
Tot Ion: 63 Resp: 245129
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.3 4.9



#38
 Bromodichloromethane
 Concen: 90.136 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. -0.00 min
 Lab File: VU025531.D
 Acq: 20 Jul 2018 10:28

Tgt Ion: 83 Resp: 329468
 Ion Ratio Lower Upper
 83 100
 85 64.1 46.7 86.7
 127 9.4 8.0 12.0





#39

cis-1,3-Dichloropropene

Concen: 94.027 ug/L

RT: 7.27 min Scan# 2078

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

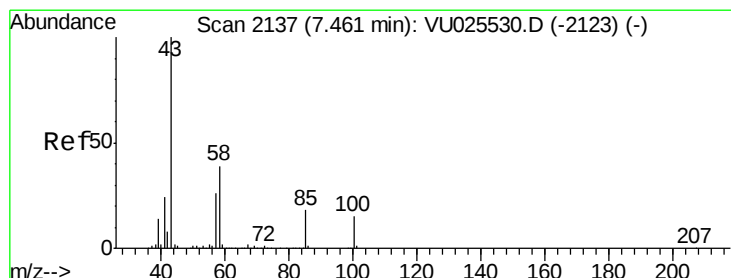
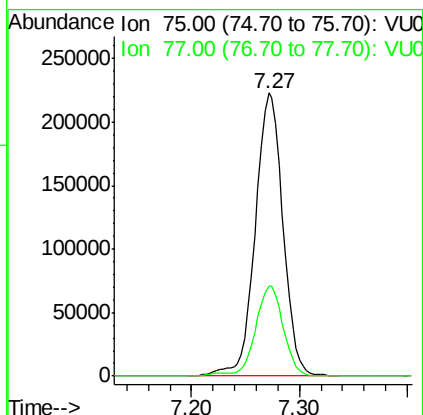
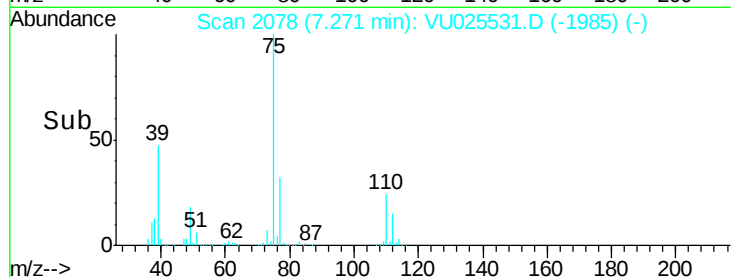
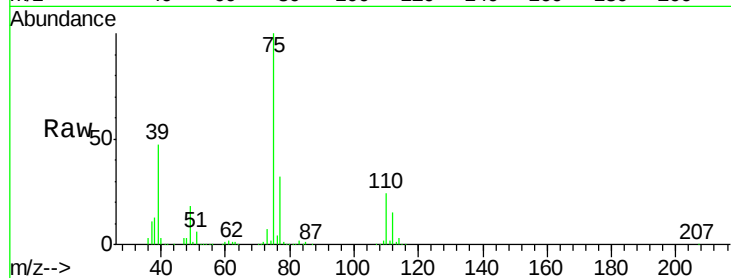
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 75 Resp: 397242

Ion Ratio Lower Upper

75 100

77 31.8 22.0 41.0



#40

4-Methyl-2-pentanone

Concen: 169.764 ug/L

RT: 7.46 min Scan# 2137

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

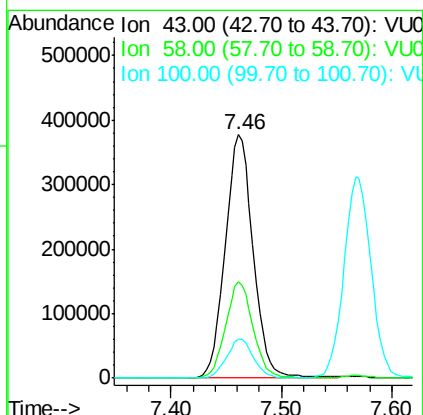
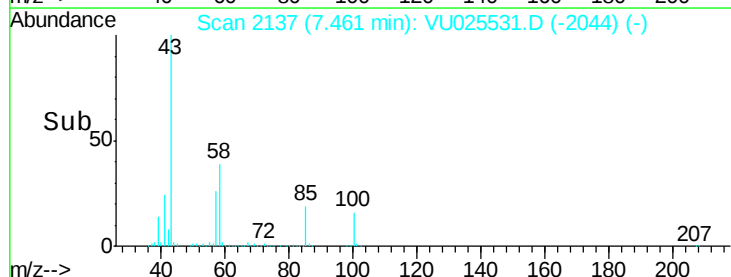
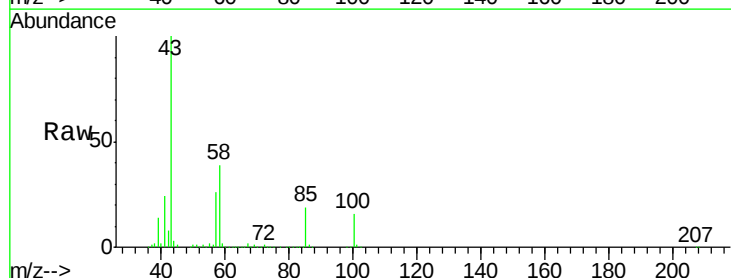
Tgt Ion: 43 Resp: 661950

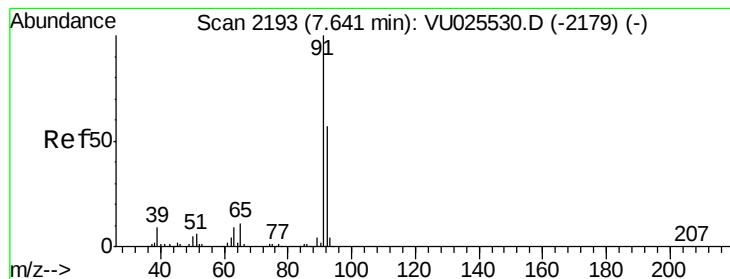
Ion Ratio Lower Upper

43 100

58 38.8 30.8 46.2

100 15.6 12.1 18.1





#42

Toluene

Concen: 93.510 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

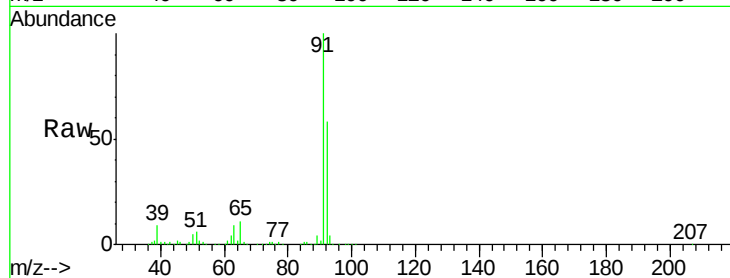
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 994813

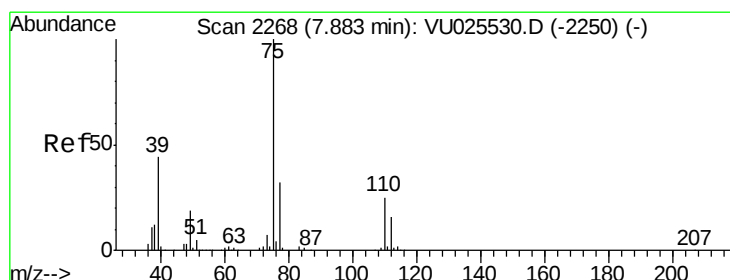
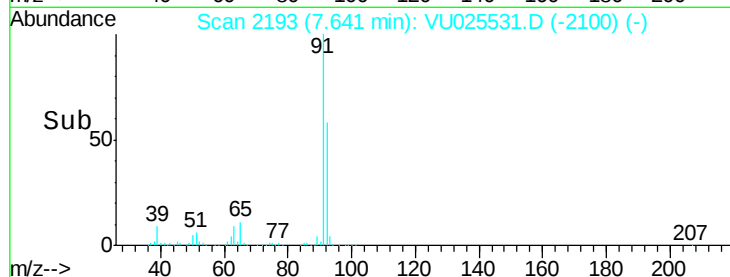
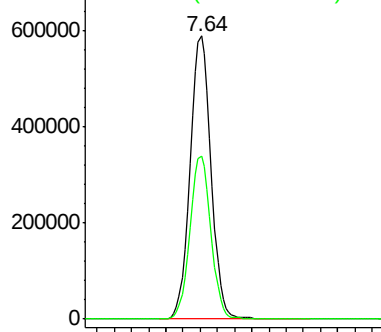
Ion Ratio Lower Upper

91 100

92 57.8 40.0 74.2



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: 93.749 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU025531.D

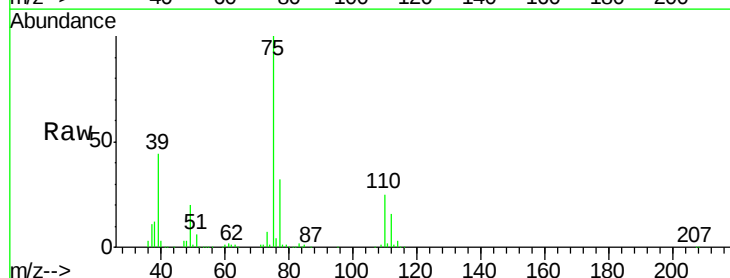
Acq: 20 Jul 2018 10:28

Tgt Ion: 75 Resp: 379150

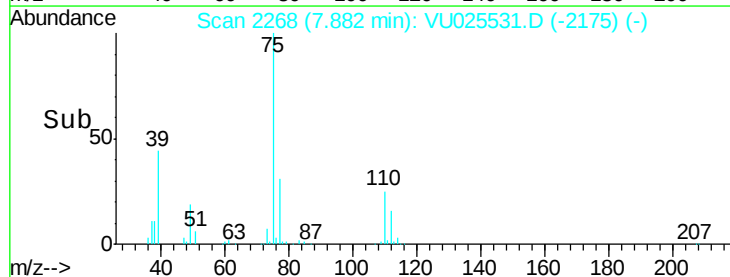
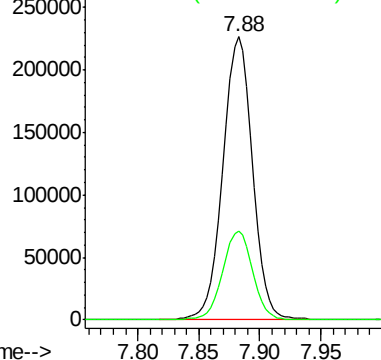
Ion Ratio Lower Upper

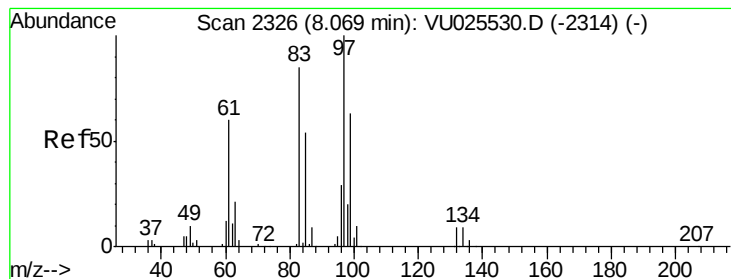
75 100

77 31.6 22.2 41.2



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: 89.745 ug/L

RT: 8.07 min Scan# 2326

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 232243

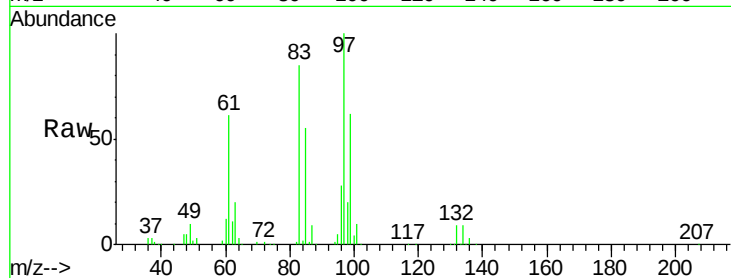
Ion Ratio Lower Upper

97 100

99 61.8 44.3 82.3

83 84.7 59.8 111.1

85 54.6 37.9 70.5

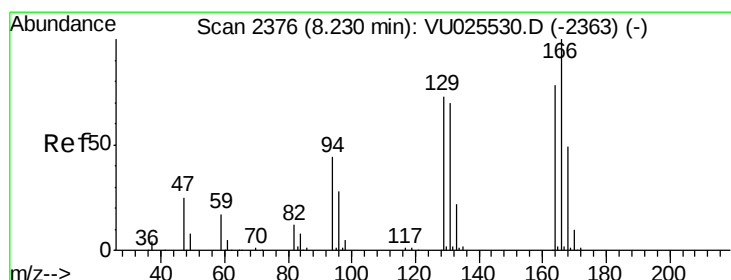
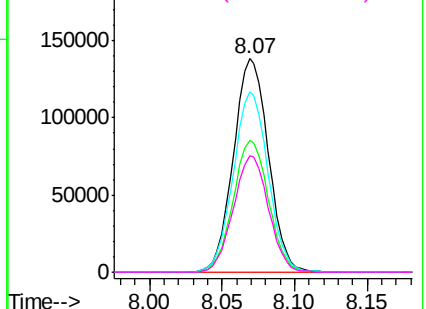
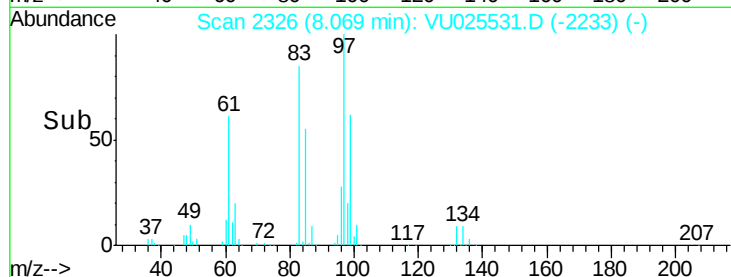


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 93.499 ug/L

RT: 8.23 min Scan# 2376

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

Tgt Ion: 164 Resp: 209867

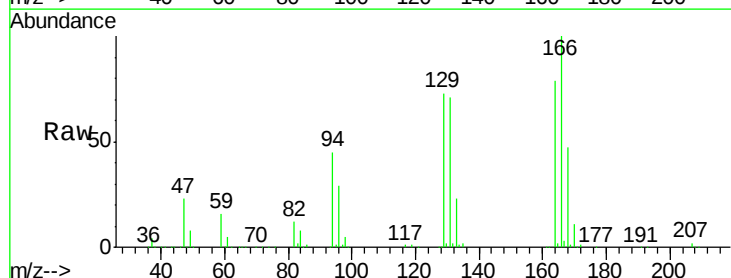
Ion Ratio Lower Upper

164 100

129 92.8 65.1 120.9

131 89.8 62.8 116.6

166 126.7 89.7 166.7

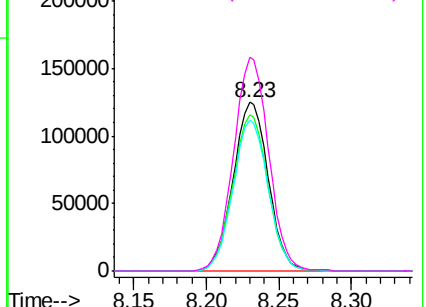
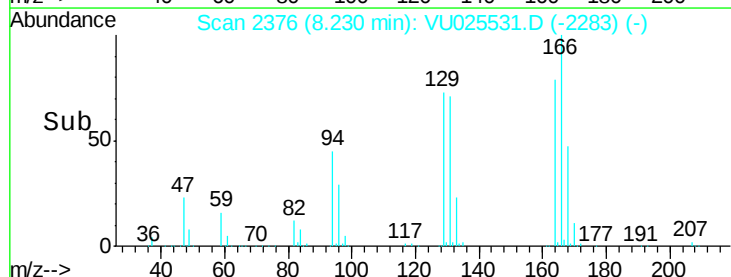


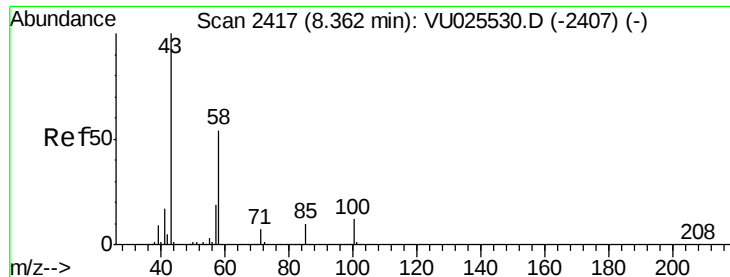
Abundance Ion 164.00 (163.70 to 164.70): V

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

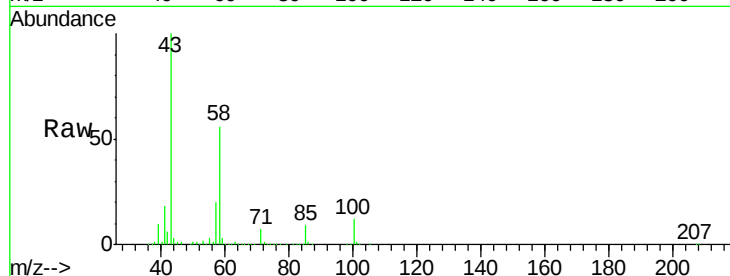




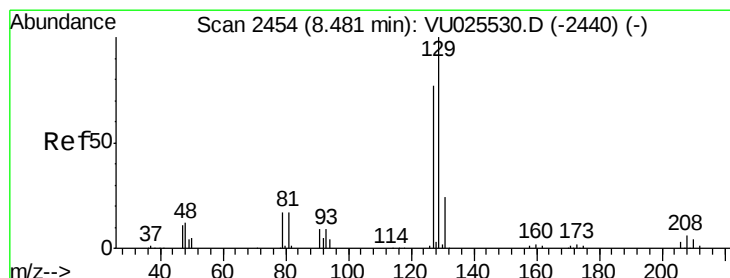
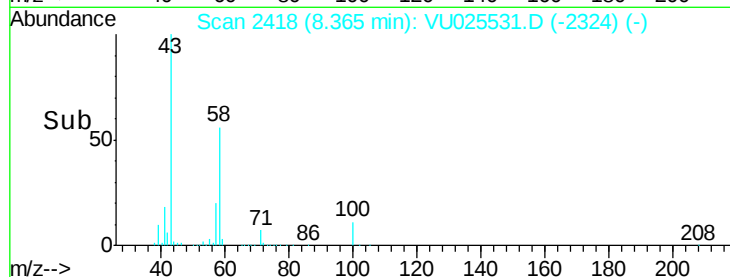
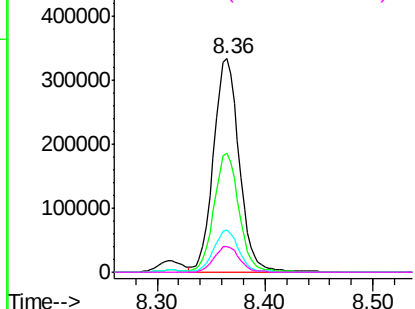
#48
2-Hexanone
Concen: 175.941 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU025531.D
Acq: 20 Jul 2018 10:28

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 552370
Ion Ratio Lower Upper
43 100
58 54.0 42.9 64.3
57 18.9 15.4 23.2
100 12.0 9.6 14.4

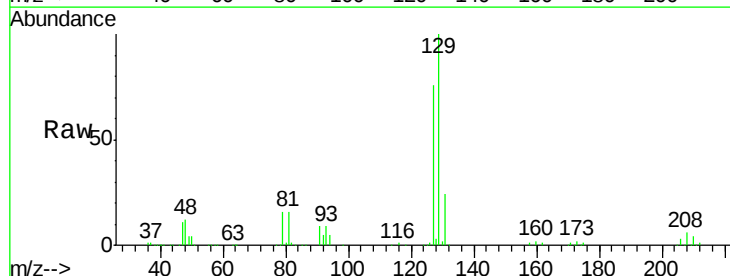


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

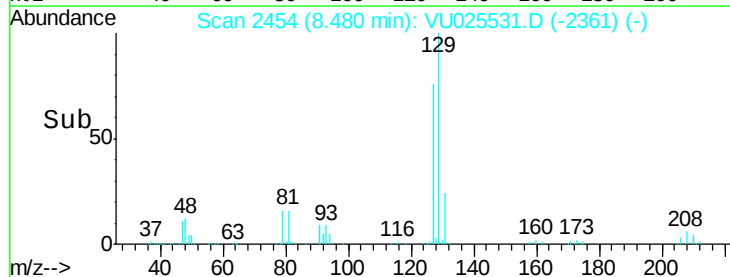
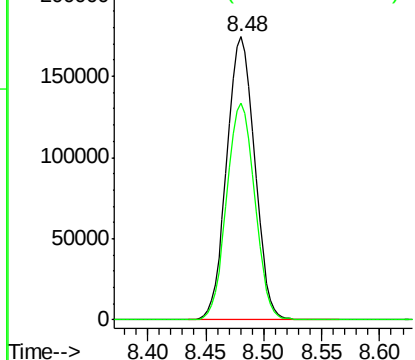


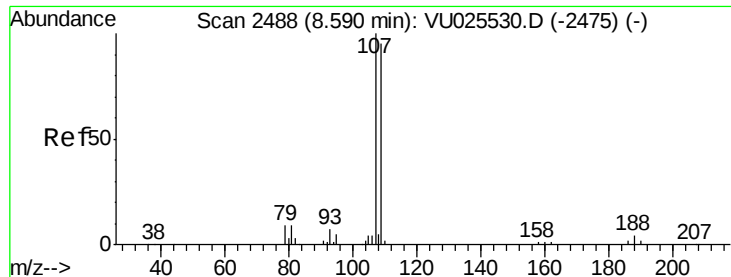
#49
Dibromochloromethane
Concen: 93.301 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU025531.D
Acq: 20 Jul 2018 10:28

Tgt Ion: 129 Resp: 291407
Ion Ratio Lower Upper
129 100
127 76.4 53.8 100.0



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

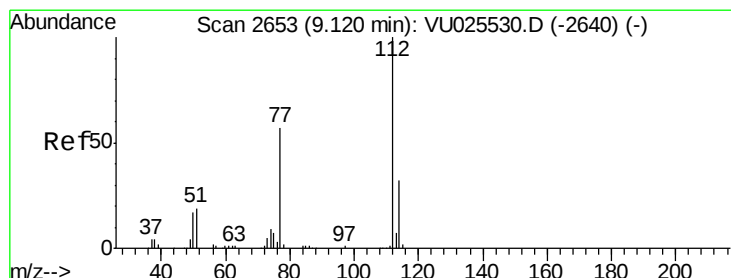
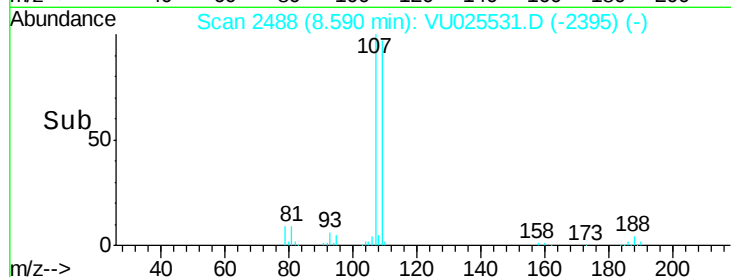
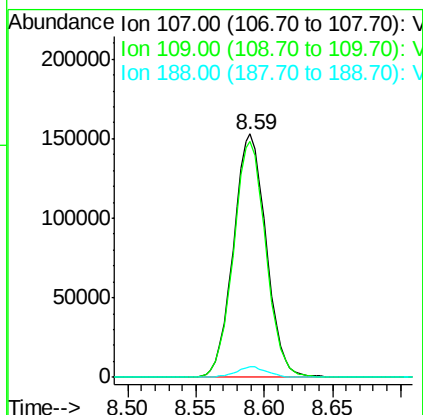
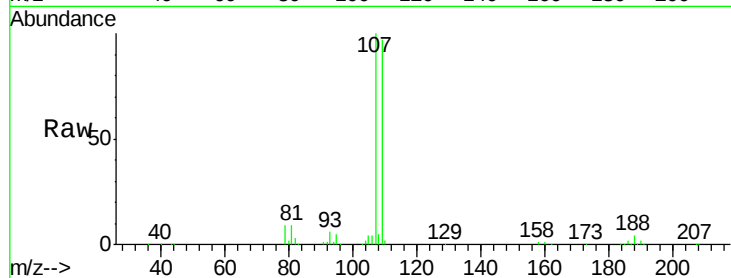




#50
1,2-Dibromoethane
Concen: 89.666 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. -0.00 min
Lab File: VU025531.D
Acq: 20 Jul 2018 10:28

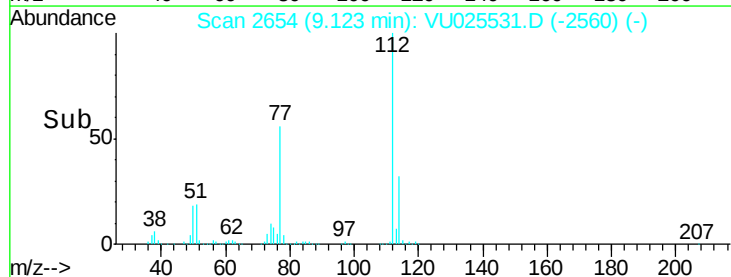
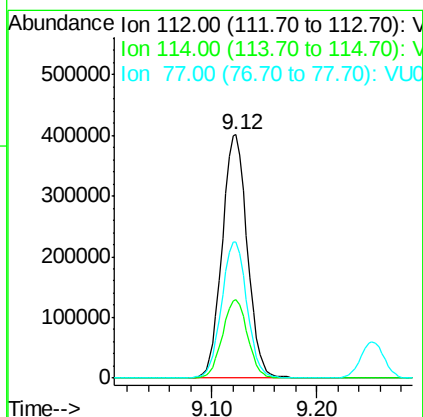
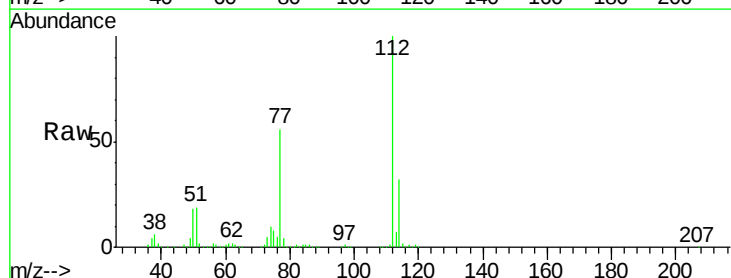
Instrument :
MSVOA_U
ClientSampleId :

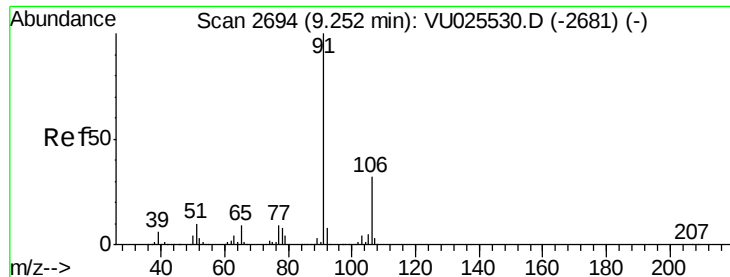
Tot Ion	Ratio	Lower	Upper
107	100		
109	97.0	66.6	123.8
188	4.3	3.2	4.8



#51
Chlorobenzene
Concen: 92.932 ug/L
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU025531.D
Acq: 20 Jul 2018 10:28

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.5	22.5	41.9
77	56.0	45.8	68.8





#52

Ethylbenzene

Concen: 94.395 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

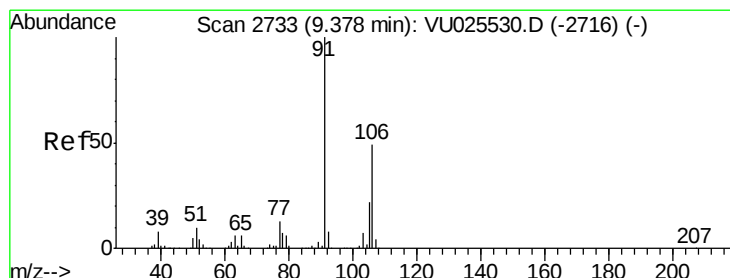
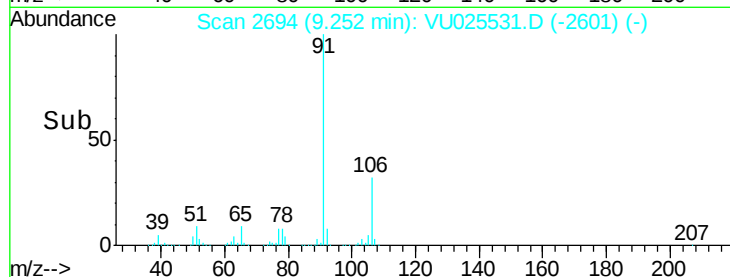
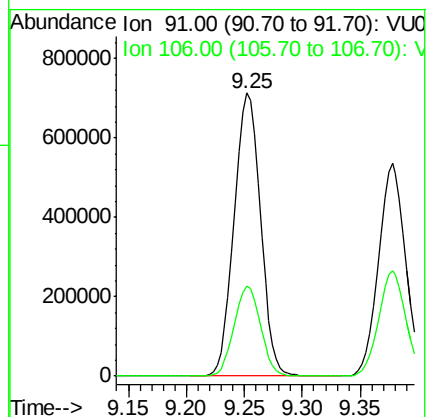
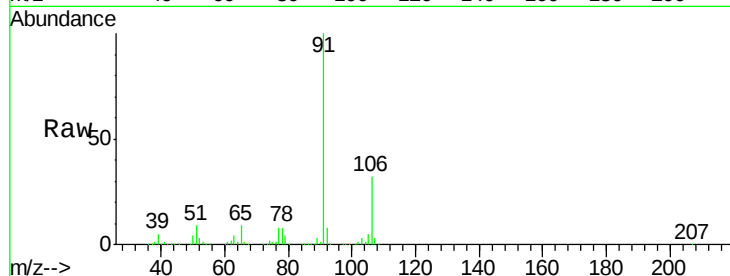
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 1121669

Ion Ratio Lower Upper

91 100

106 31.7 22.3 41.5



#53

m,p-Xylene

Concen: 95.681 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU025531.D

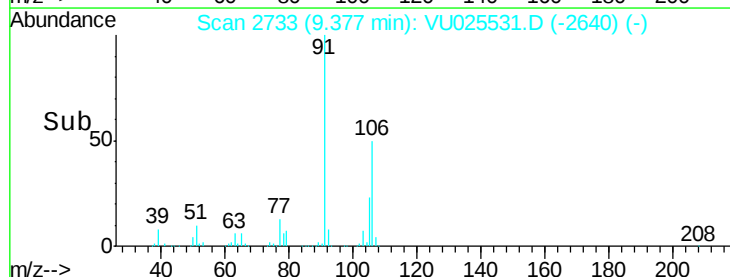
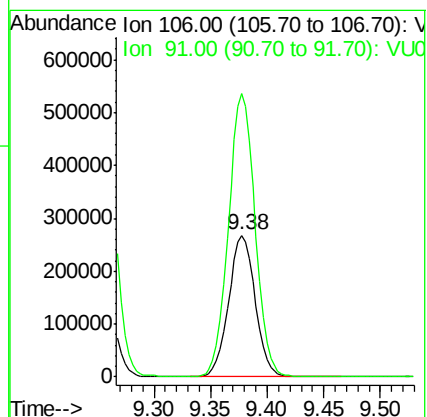
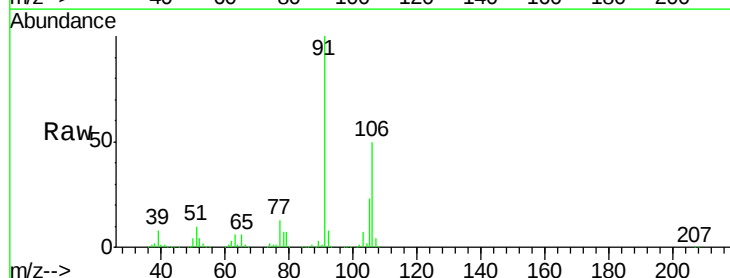
Acq: 20 Jul 2018 10:28

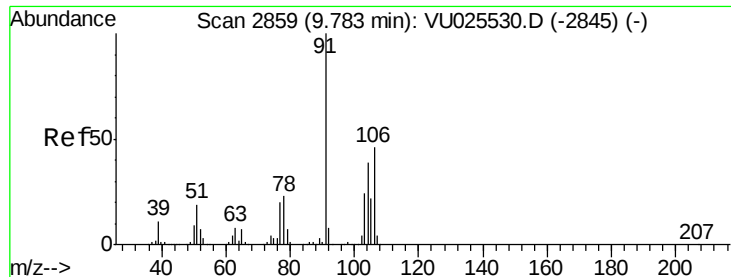
Tgt Ion: 106 Resp: 437070

Ion Ratio Lower Upper

106 100

91 200.2 141.7 263.3

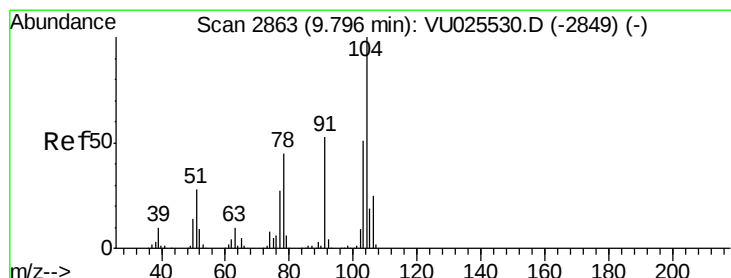
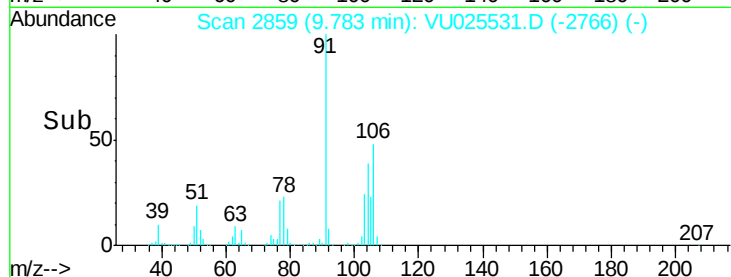
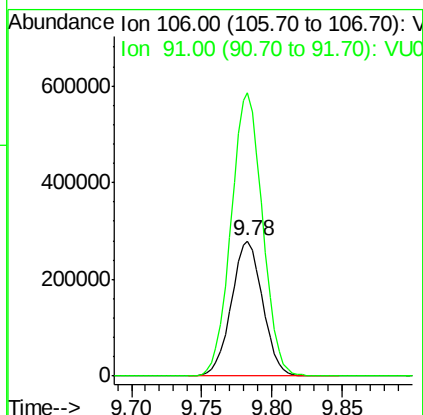
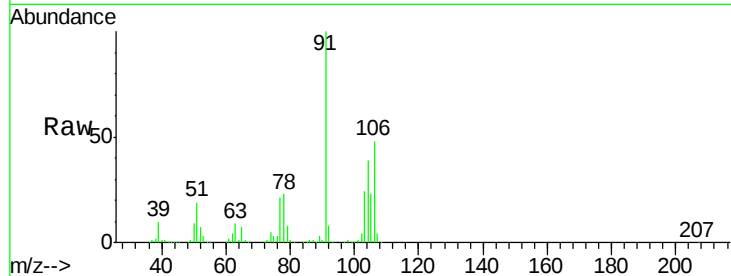




#54
o-xylene
Concen: 94.402 ug/L
RT: 9.78 min Scan# 2859
Delta R.T. -0.00 min
Lab File: VU025531.D
Acq: 20 Jul 2018 10:28

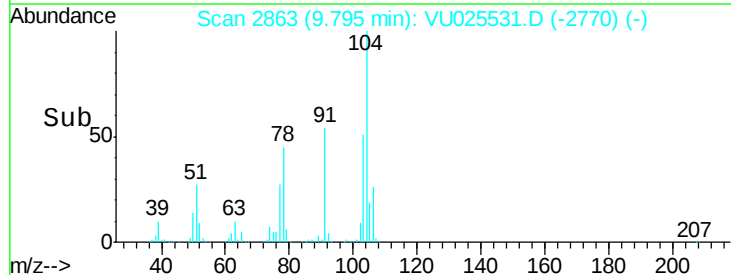
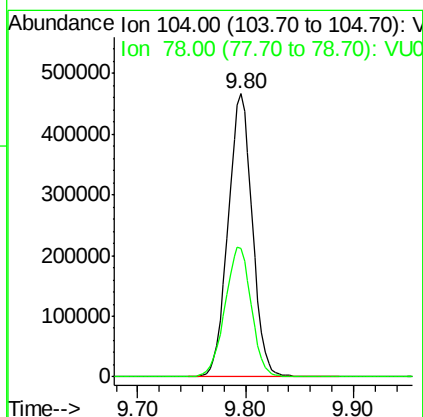
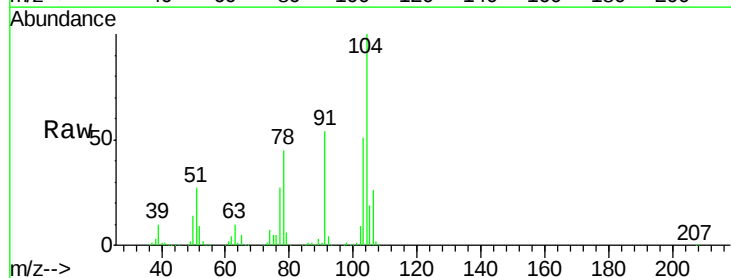
Instrument :
MSVOA_U
ClientSampleId :

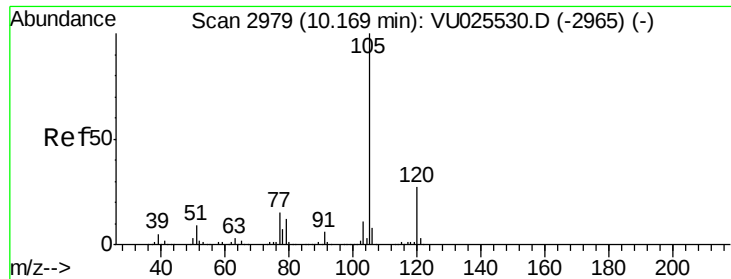
Tot Ion:106 Resp: 433330
Ion Ratio Lower Upper
106 100
91 209.8 150.6 279.6



#55
Styrene
Concen: 96.468 ug/L
RT: 9.80 min Scan# 2863
Delta R.T. -0.00 min
Lab File: VU025531.D
Acq: 20 Jul 2018 10:28

Tgt Ion:104 Resp: 730825
Ion Ratio Lower Upper
104 100
78 45.4 31.8 59.0





#56

Isopropylbenzene

Concen: 95.666 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

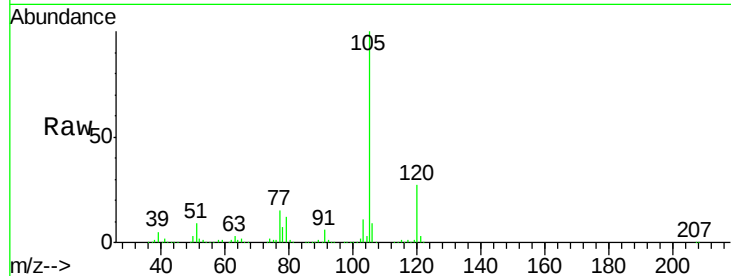
Instrument :

MSVOA_U

ClientSampled :

Tot Ion:105 Resp: 1141367

Ion	Ratio	Lower	Upper
105	100		
120	27.1	21.7	32.5
77	15.4	12.4	18.6

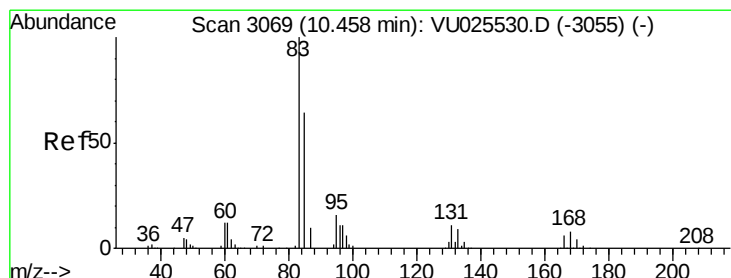
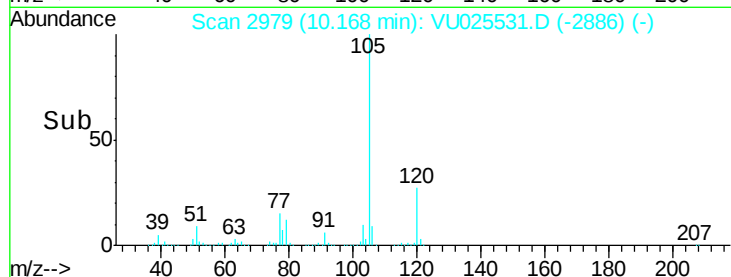
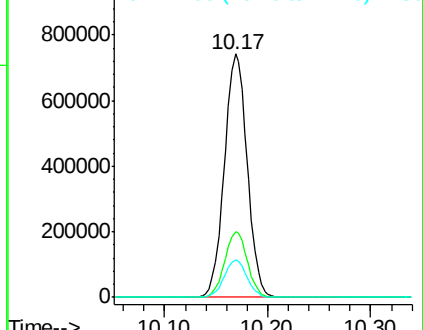


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 86.860 ug/L

RT: 10.46 min Scan# 3069

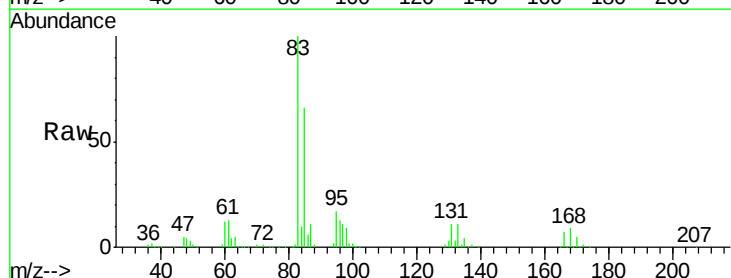
Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

Tgt Ion: 83 Resp: 384527

Ion	Ratio	Lower	Upper
83	100		
85	65.7	45.1	83.7
131	10.7	8.7	13.1

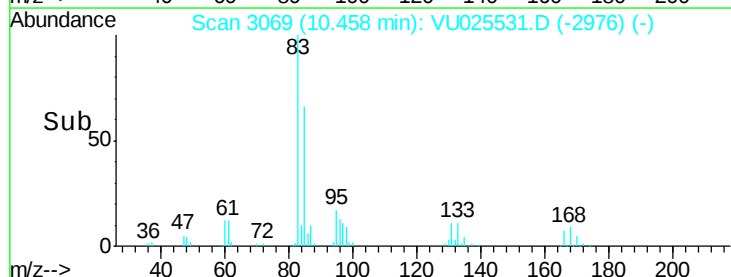
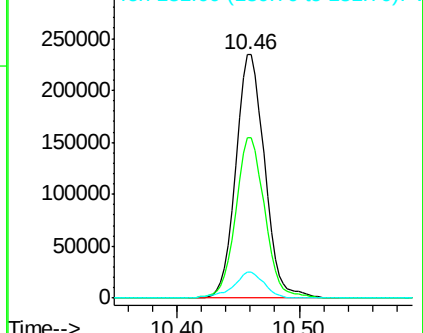


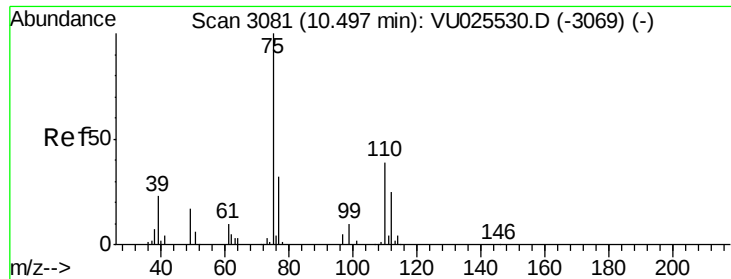
Abundance

Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

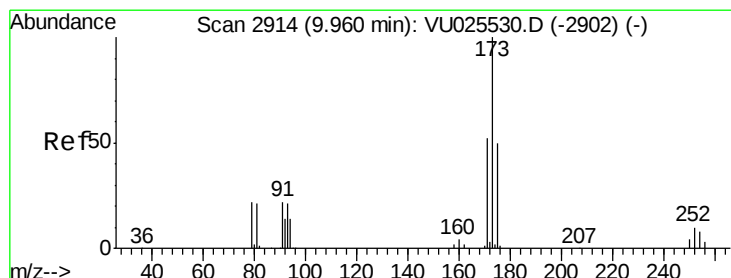
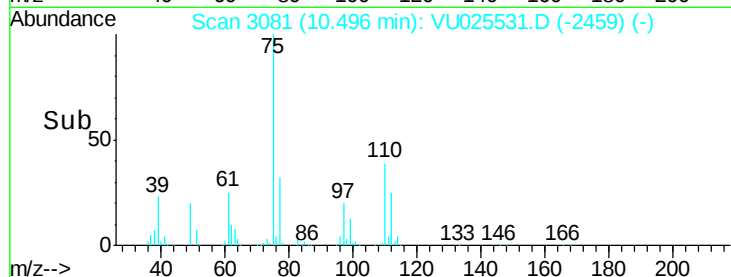
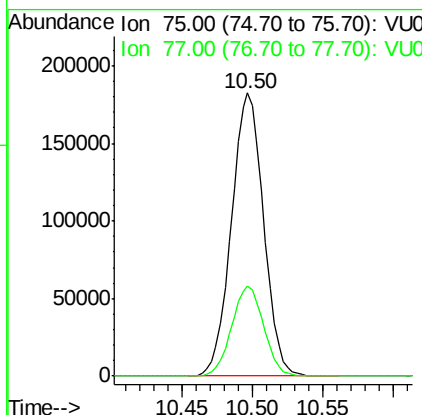
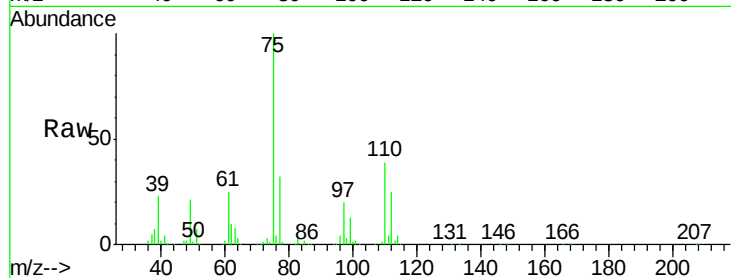




#59
 1,2,3-Trichloropropane
 Concen: 81.639 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. -0.00 min
 Lab File: VU025531.D
 Acq: 20 Jul 2018 10:28

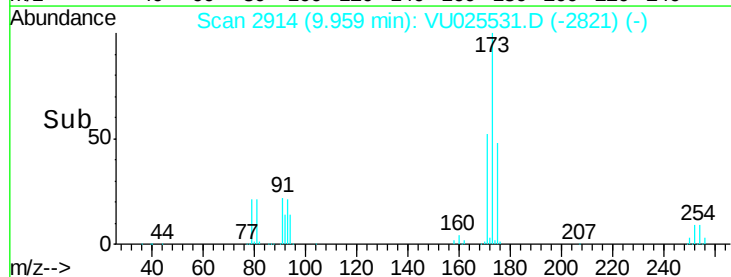
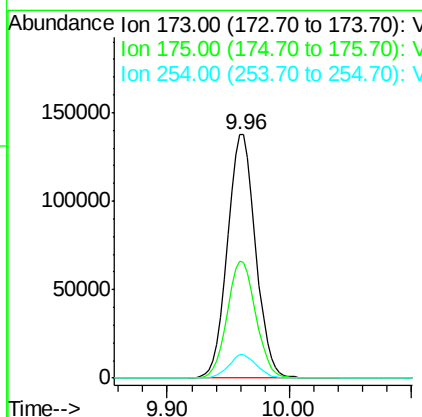
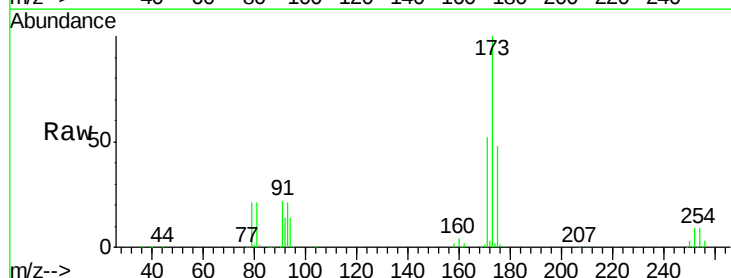
Instrument :
 MSVOA_U
 ClientSampled :

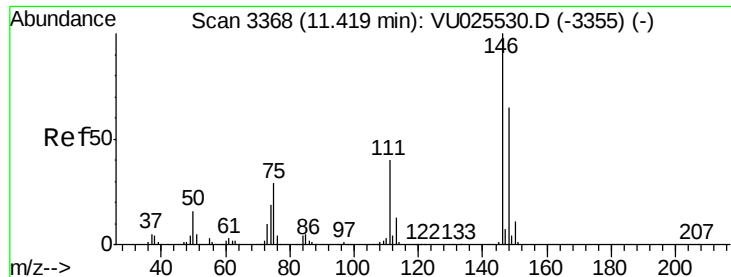
Tot Ion: 75 Resp: 290634
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.8 38.8



#61
 Bromoform
 Concen: 89.027 ug/L
 RT: 9.96 min Scan# 2914
 Delta R.T. -0.00 min
 Lab File: VU025531.D
 Acq: 20 Jul 2018 10:28

Tgt Ion:173 Resp: 222354
 Ion Ratio Lower Upper
 173 100
 175 48.9 39.8 59.8
 254 9.6 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 90.218 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. -0.00 min

Lab File: VU025531.D

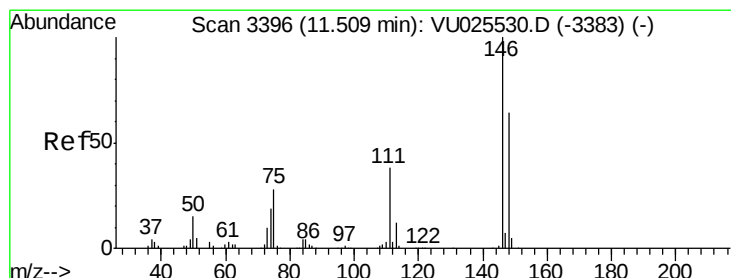
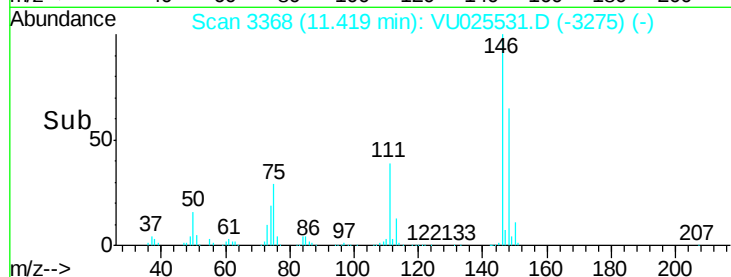
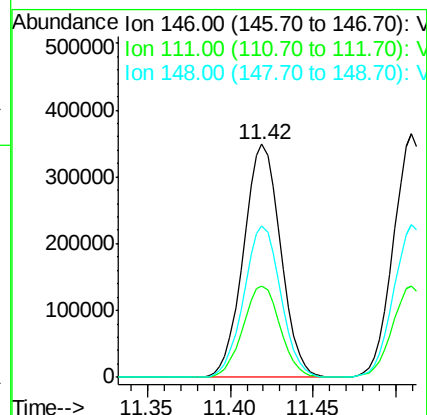
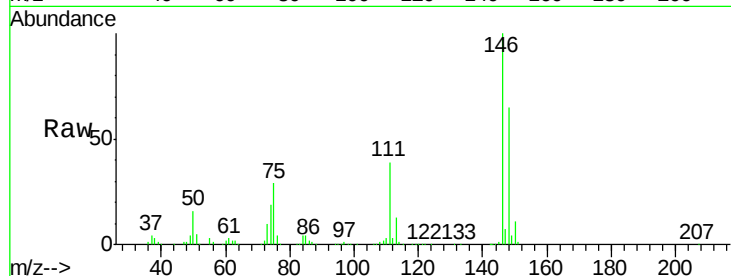
Acq: 20 Jul 2018 10:28

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:146	Resp:	543132
Ion	Ratio	Lower Upper
146	100	
111	39.4	27.7 51.5
148	65.1	45.5 84.5



#63

1,4-Dichlorobenzene

Concen: 91.102 ug/L

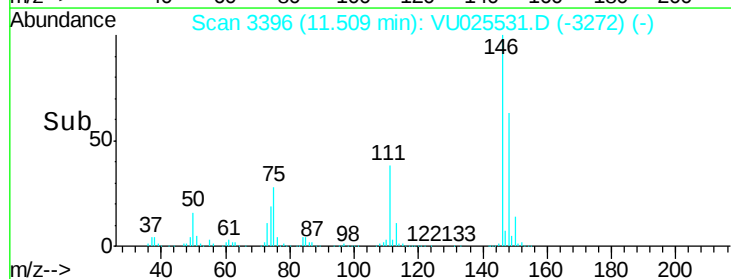
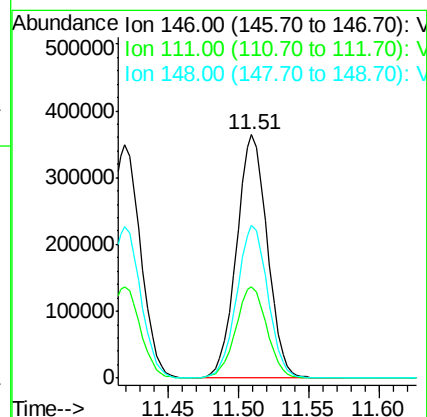
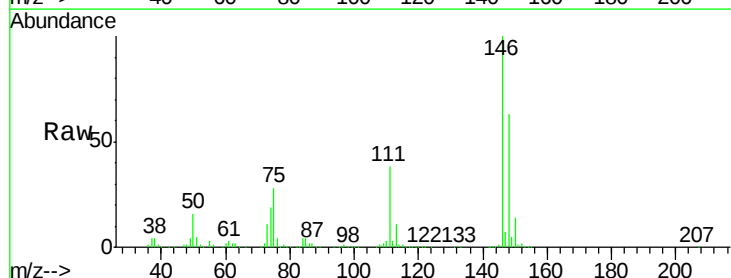
RT: 11.51 min Scan# 3396

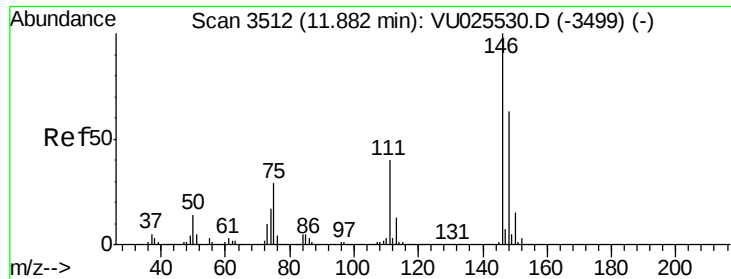
Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

Tgt Ion:146	Resp:	556098
Ion	Ratio	Lower Upper
146	100	
111	37.7	26.9 49.9
148	62.6	44.6 82.8

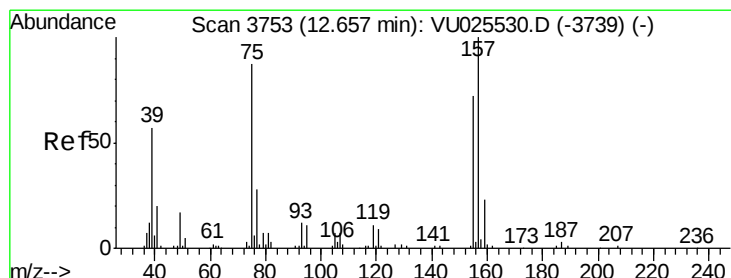
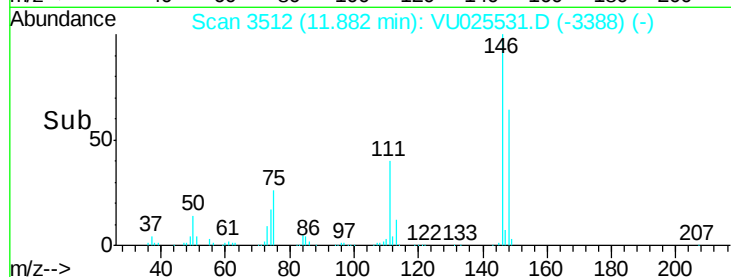
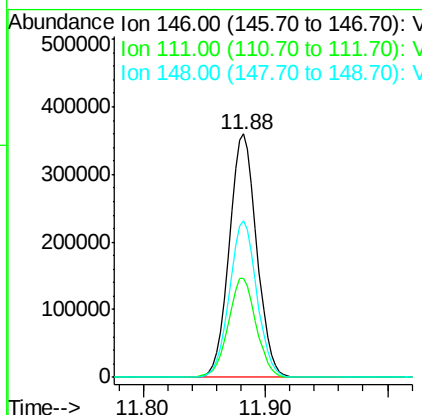
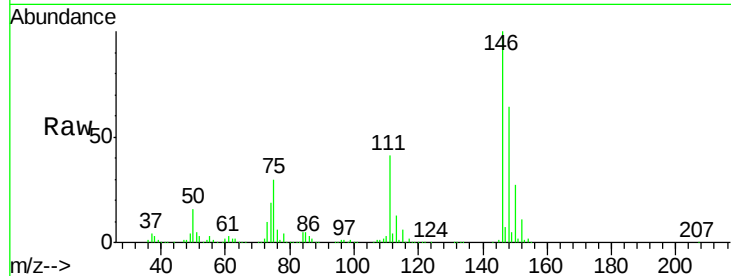




#65
 1,2-Dichlorobenzene
 Concen: 88.867 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU025531.D
 Acq: 20 Jul 2018 10:28

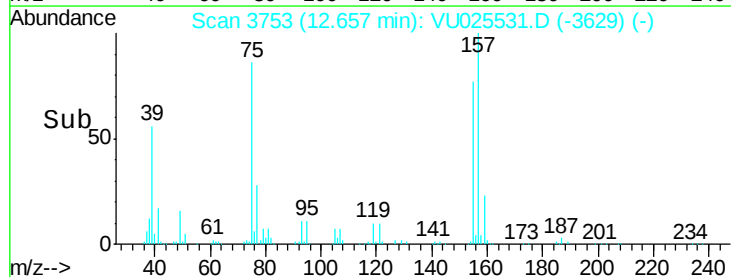
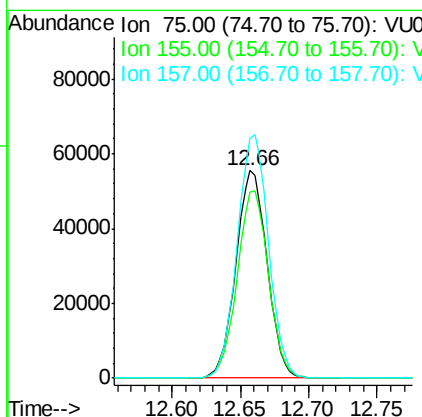
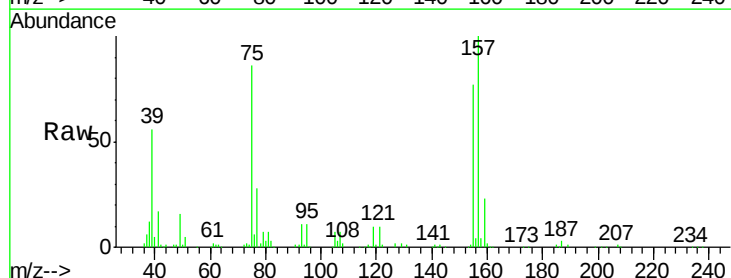
Instrument :
 MSVOA_U
 ClientSampleId :

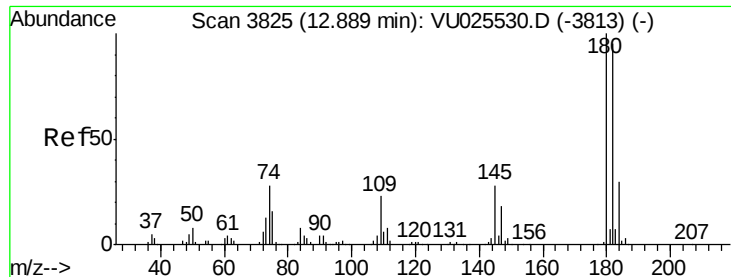
Tot Ion:146 Resp: 563397
 Ion Ratio Lower Upper
 146 100
 111 40.8 32.4 48.6
 148 64.3 50.7 76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 77.535 ug/L
 RT: 12.66 min Scan# 3753
 Delta R.T. -0.00 min
 Lab File: VU025531.D
 Acq: 20 Jul 2018 10:28

Tgt Ion: 75 Resp: 88393
 Ion Ratio Lower Upper
 75 100
 155 89.5 66.3 99.5
 157 115.6 91.5 137.3

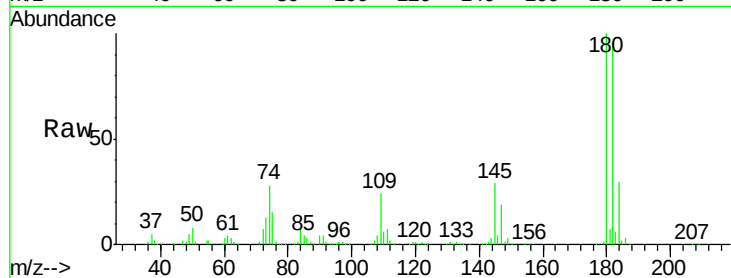




#67
 1,3,5-Trichlorobenzene
 Concen: 92.315 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. -0.00 min
 Lab File: VU025531.D
 Acq: 20 Jul 2018 10:28

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	180	Resp	433184
Ion Ratio	Lower	Upper	
180	100		
182	95.4	77.3	115.9
184	30.2	24.6	36.8
145	29.3	23.0	34.6

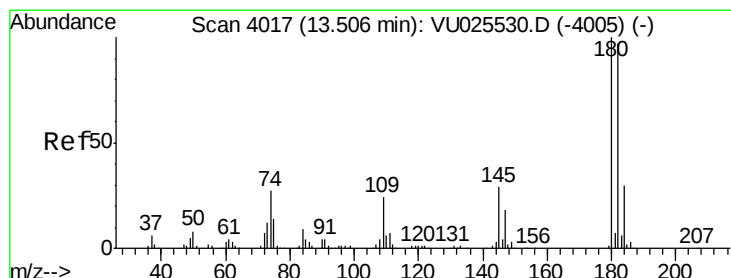
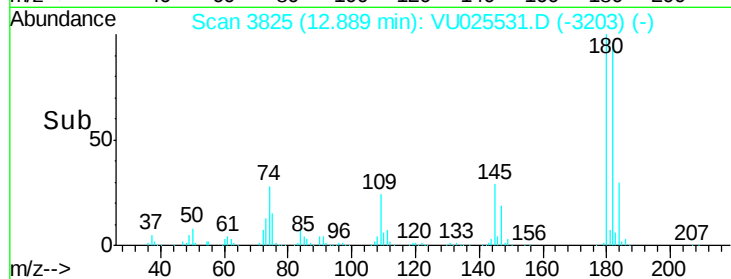
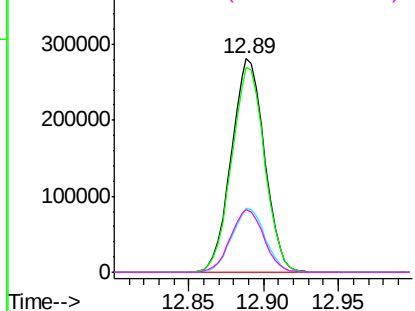


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

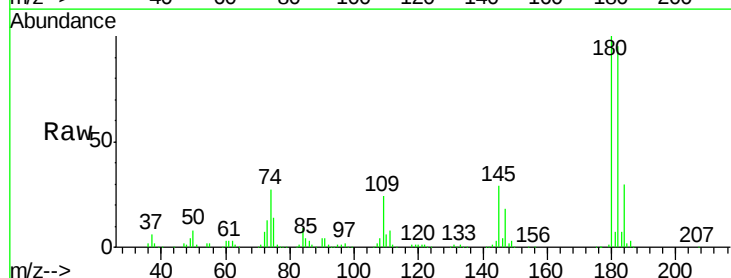
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 91.099 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU025531.D
 Acq: 20 Jul 2018 10:28

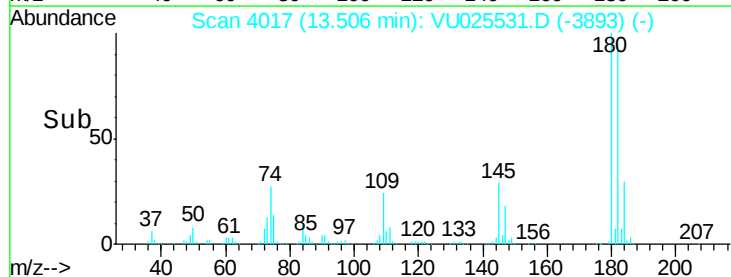
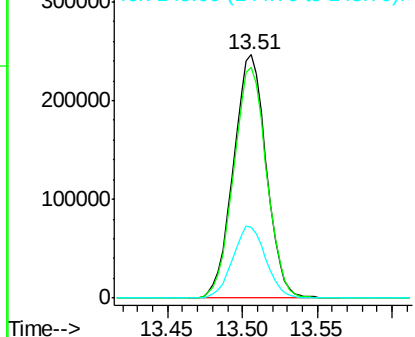
Tgt Ion	180	Resp	376967
Ion Ratio	Lower	Upper	
180	100		
182	95.4	78.1	117.1
145	29.8	23.4	35.2

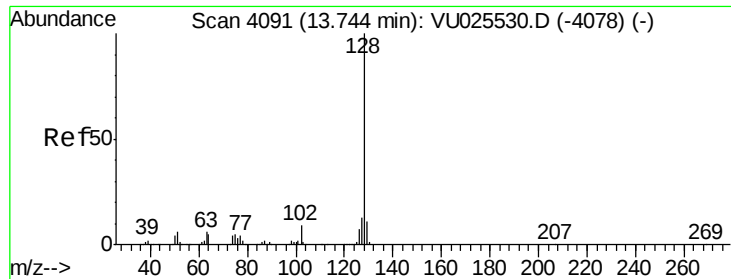


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 84.371 ug/L

RT: 13.74 min Scan# 4091

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

Instrument :

MSVOA_U

ClientSampleId :

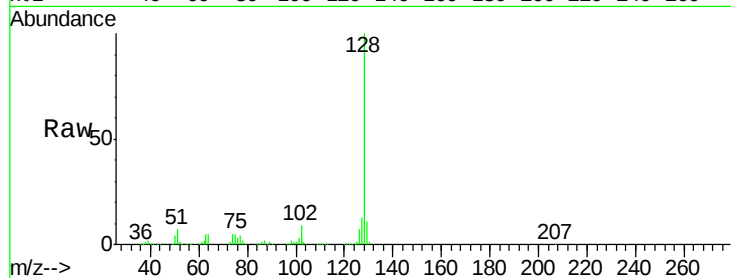
Tot Ion:128 Resp: 1164410

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

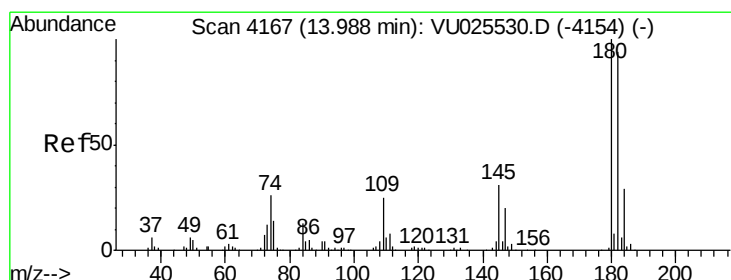
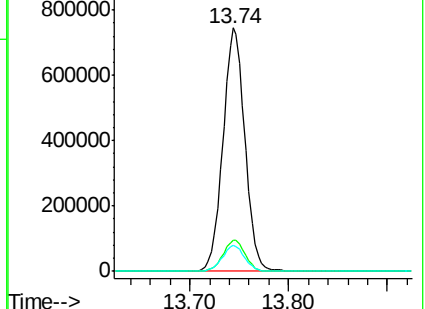
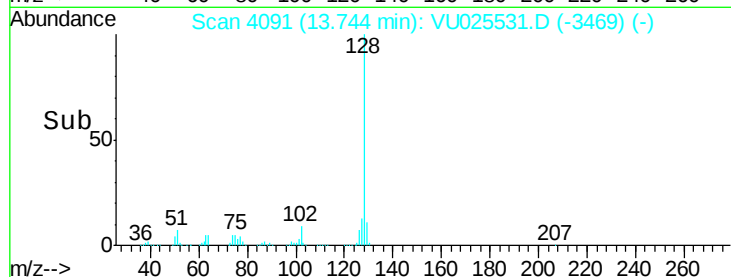
129 10.8 8.4 12.6



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: 89.212 ug/L

RT: 13.99 min Scan# 4167

Delta R.T. -0.00 min

Lab File: VU025531.D

Acq: 20 Jul 2018 10:28

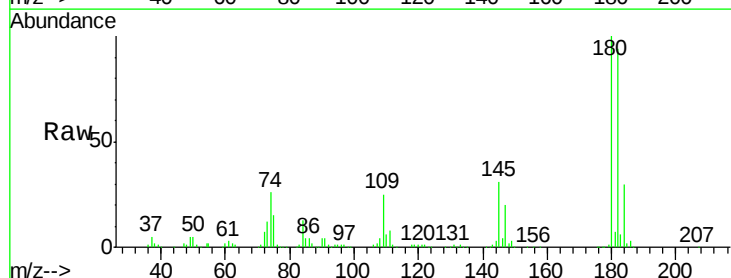
Tgt Ion:180 Resp: 393072

Ion Ratio Lower Upper

180 100

182 95.9 76.6 114.8

145 31.3 25.4 38.2



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

