

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U072018\
 Data File : VU025533.D
 Acq On : 20 Jul 2018 11:38
 Operator : MD/SY
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 21 01:14:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jul 21 01:12:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	351603	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	329500	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	170701	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	101262	50.45	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	100.90%
7) Chloroethane-d5	1.68	69	80613	48.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.38%
11) 1,1-Dichloroethene-d2	2.28	63	209904	50.23	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.46%
21) 2-Butanone-d5	4.18	46	160045	103.28	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.28%
24) Chloroform-d	4.65	84	223515	49.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.98%
26) 1,2-Dichloroethane-d4	5.31	65	144444	48.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.70%
32) Benzene-d6	5.35	84	423384	50.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.20%
36) 1,2-Dichloropropane-d6	6.34	67	134926	49.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.10%
41) Toluene-d8	7.57	98	409099	50.48	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.96%
43) trans-1,3-Dichloropropene-	7.85	79	70835	50.93	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.86%
47) 2-Hexanone-d5	8.31	63	119588	104.89	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.89%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	187610	49.26	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.52%
64) 1,2-Dichlorobenzene-d4	11.86	152	175687	50.78	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.56%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.21	85	163324	47.144	ug/L 100
3) Chloromethane	1.33	50	125053	49.984	ug/L 100
5) Vinyl chloride	1.41	62	132941	48.447	ug/L 100
6) Bromomethane	1.63	94	57919	60.695	ug/L 97
8) Chloroethane	1.70	64	78534	48.604	ug/L 96
9) Trichlorofluoromethane	1.89	101	186888	47.826	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	110159	50.341	ug/L 99
12) 1,1-Dichloroethene	2.29	96	98647	49.714	ug/L 100
13) Acetone	2.32	43	163553	89.919	ug/L 99
14) Carbon disulfide	2.48	76	315181	48.780	ug/L 99
15) Methyl Acetate	2.62	43	121921	48.490	ug/L 98
16) Methylene chloride	2.71	84	119151	48.204	ug/L 97
17) trans-1,2-Dichloroethene	2.99	96	111820	48.945	ug/L 98
18) Methyl tert-butyl Ether	3.00	73	365783	49.161	ug/L 100
19) 1,1-Dichloroethane	3.45	63	208180	47.903	ug/L 99
20) cis-1,2-Dichloroethene	4.23	96	125204	48.551	ug/L 96
22) 2-Butanone	4.26	43	187395	92.546	ug/L 100

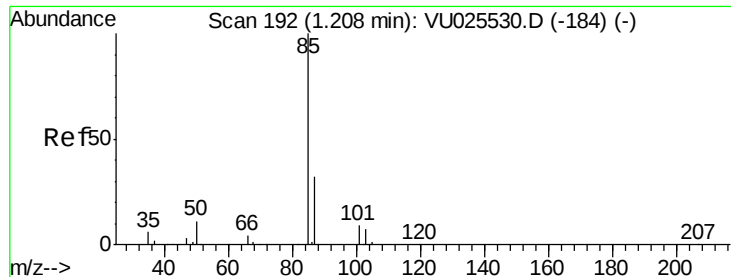
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072018\
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 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	67291	49.437	uq/L	99
25) Chloroform	4.68	83	220414	48.198	uq/L	100
27) 1,2-Dichloroethane	5.41	62	182330	48.882	uq/L	100
29) Cyclohexane	5.00	56	185063	48.479	uq/L	100
30) 1,1,1-Trichloroethane	4.92	97	199795	48.457	uq/L	99
31) Carbon tetrachloride	5.14	117	181817	47.689	uq/L	99
33) Benzene	5.39	78	459501	48.534	uq/L	100
34) Trichloroethene	6.19	95	122701	48.845	uq/L	98
35) Methylcyclohexane	6.42	83	197754	48.823	uq/L	99
37) 1,2-Dichloropropane	6.44	63	123687	47.808	uq/L	100
38) Bromodichloromethane	6.76	83	164803	48.314	uq/L	96
39) cis-1,3-Dichloropropene	7.27	75	200840	50.023	uq/L	100
40) 4-Methyl-2-pentanone	7.46	43	337521	99.344	uq/L	99
42) Toluene	7.64	91	500732	49.044	uq/L	100
44) trans-1,3-Dichloropropene	7.88	75	189707	50.113	uq/L	100
45) 1,1,2-Trichloroethane	8.07	97	118377	47.702	uq/L	98
46) Tetrachloroethene	8.23	164	106409	48.861	uq/L	99
48) 2-Hexanone	8.36	43	281220	97.957	uq/L	99
49) Dibromochloromethane	8.48	129	142789	49.051	uq/L	100
50) 1,2-Dibromoethane	8.59	107	128450	48.045	uq/L	99
51) Chlorobenzene	9.12	112	333992	48.591	uq/L	99
52) Ethylbenzene	9.25	91	558195	49.534	uq/L	99
53) m,p-Xylene	9.38	106	216000	50.042	uq/L	100
54) o-xylene	9.78	106	216413	49.411	uq/L	97
55) Styrene	9.80	104	361446	50.669	uq/L	99
56) Isopropylbenzene	10.17	105	560885	49.622	uq/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	193429	48.323	uq/L	100
59) 1,2,3-Trichloropropane	10.50	75	143506	47.224	uq/L	99
61) Bromoform	9.96	173	106591	48.275	uq/L	97
62) 1,3-Dichlorobenzene	11.42	146	267518	49.544	uq/L	100
63) 1,4-Dichlorobenzene	11.51	146	268475	48.710	uq/L	99
65) 1,2-Dichlorobenzene	11.88	146	274756	48.571	uq/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	43338	48.714	uq/L	96
67) 1,3,5-Trichlorobenzene	12.89	180	211502	50.745	uq/L	99
68) 1,2,4-trichlorobenzene	13.51	180	178823	51.050	uq/L	99
69) Naphthalene	13.74	128	560016	53.162	uq/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	191009	51.583	uq/L	99

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



#2

Dichlorodifluoromethane

Concen: 47.144 ug/L

RT: 1.21 min Scan# 192

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

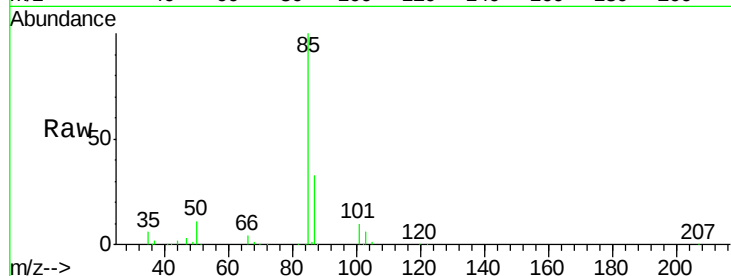
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 163324

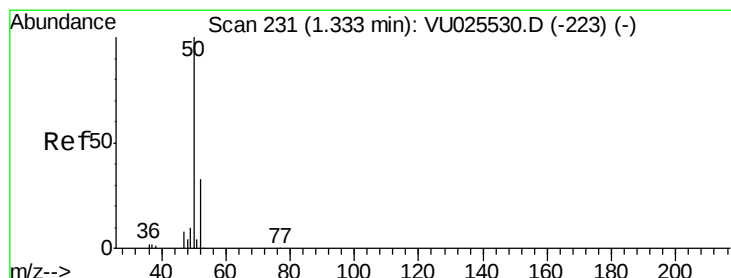
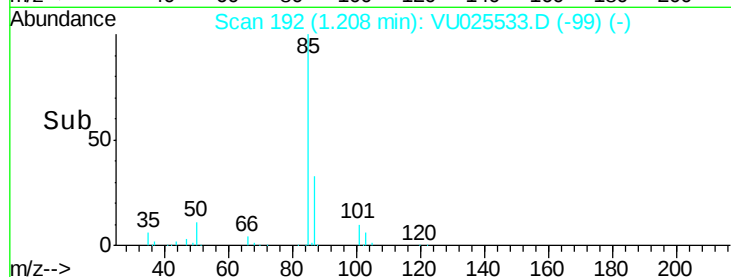
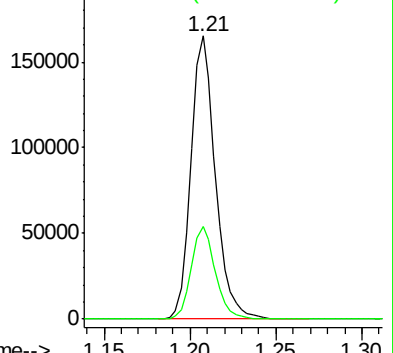
Ion Ratio Lower Upper

85 100

87 32.1 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: 49.984 ug/L

RT: 1.33 min Scan# 231

Delta R.T. -0.00 min

Lab File: VU025533.D

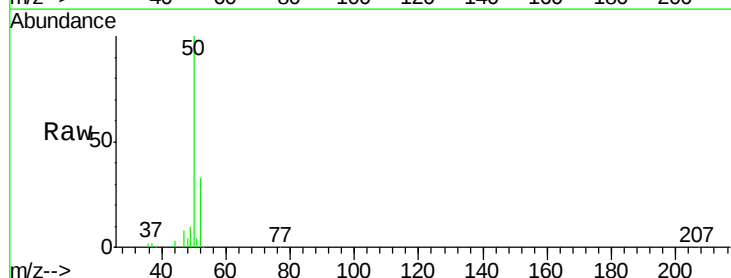
Acq: 20 Jul 2018 11:38

Tgt Ion: 50 Resp: 125053

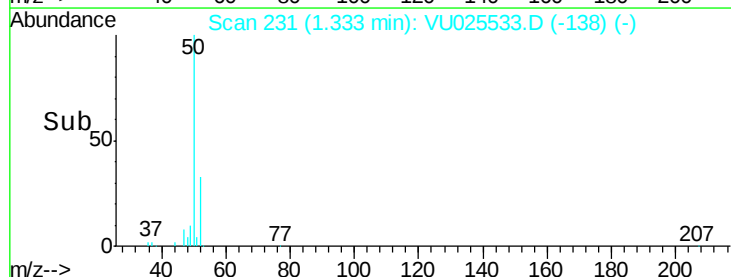
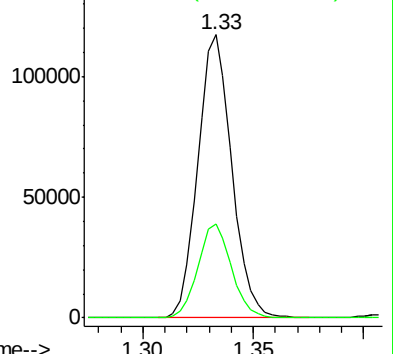
Ion Ratio Lower Upper

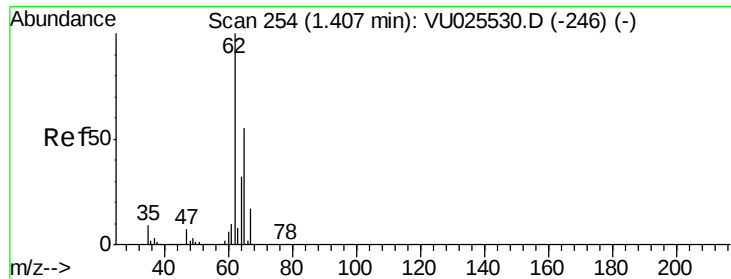
50 100

52 33.0 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: 48.447 ug/L

RT: 1.41 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

Instrument :

MSVOA_U

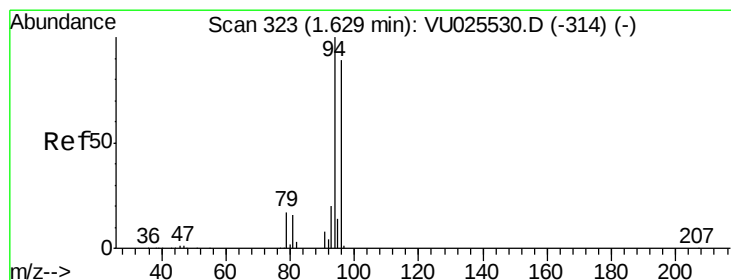
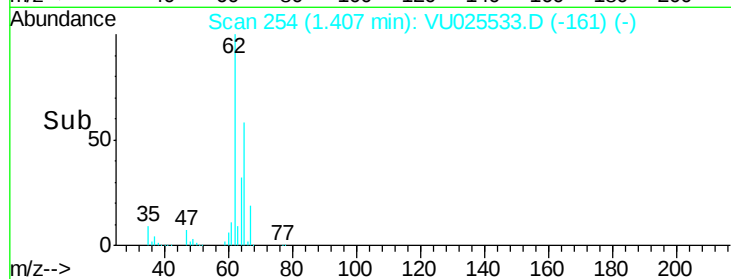
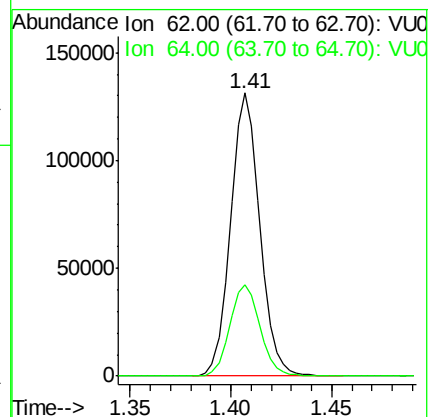
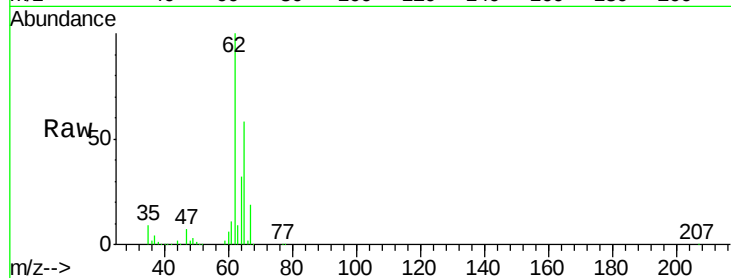
ClientSampleId :

Tot Ion: 62 Resp: 132941

Ion Ratio Lower Upper

62 100

64 32.4 22.7 42.1



#6

Bromomethane

Concen: 60.695 ug/L

RT: 1.63 min Scan# 323

Delta R.T. -0.00 min

Lab File: VU025533.D

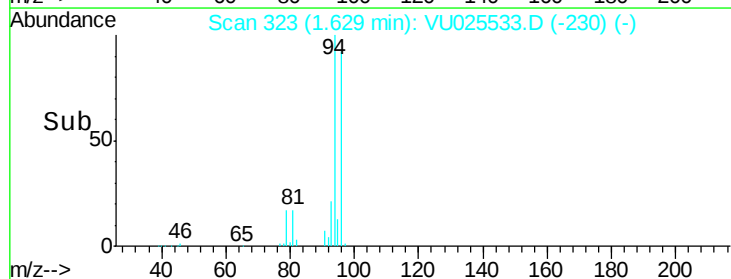
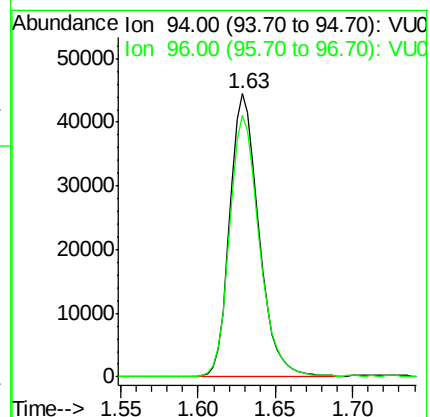
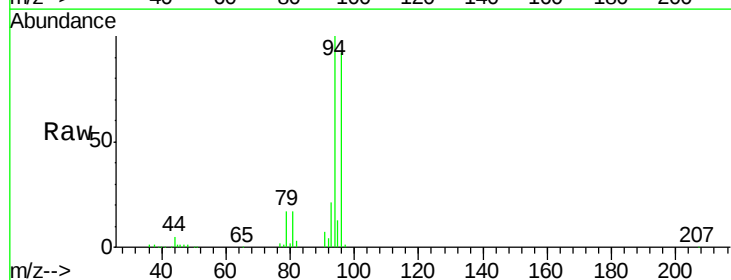
Acq: 20 Jul 2018 11:38

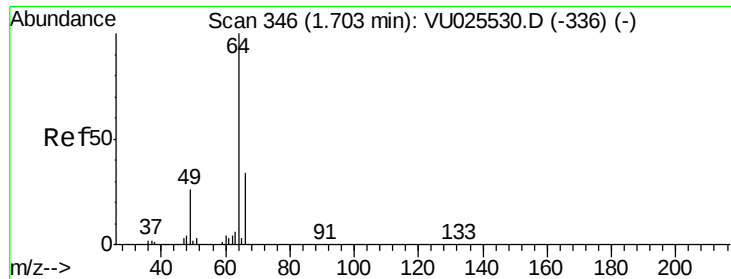
Tgt Ion: 94 Resp: 57919

Ion Ratio Lower Upper

94 100

96 92.2 62.4 115.8





#8

Chloroethane

Concen: 48.604 ug/L

RT: 1.70 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

Instrument :

MSVOA_U

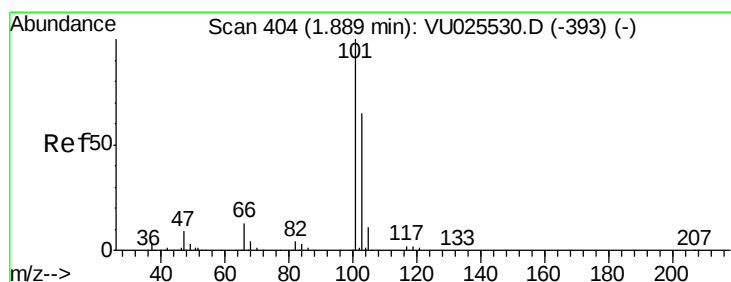
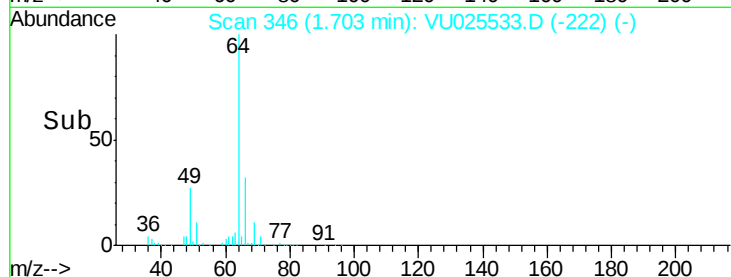
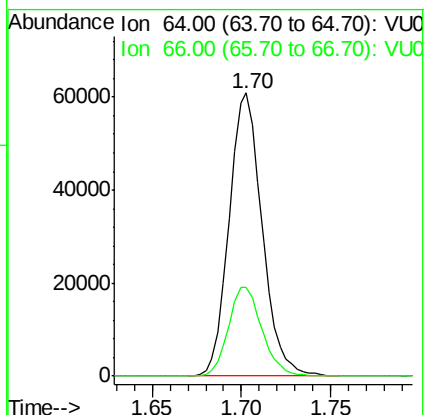
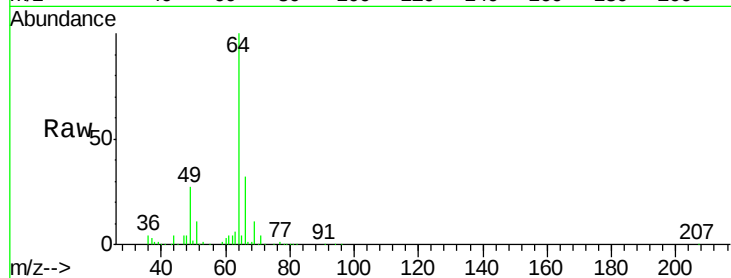
ClientSampleId :

Tot Ion: 64 Resp: 78534

Ion Ratio Lower Upper

64 100

66 31.5 23.5 43.7



#9

Trichlorofluoromethane

Concen: 47.826 ug/L

RT: 1.89 min Scan# 404

Delta R.T. -0.00 min

Lab File: VU025533.D

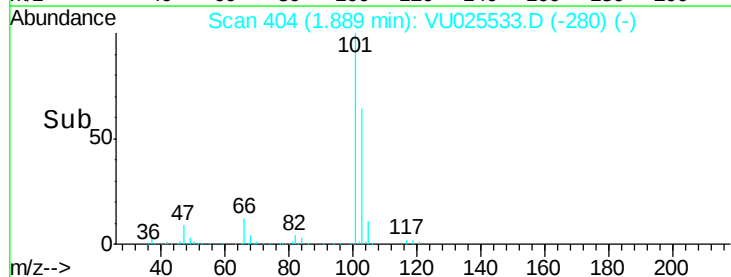
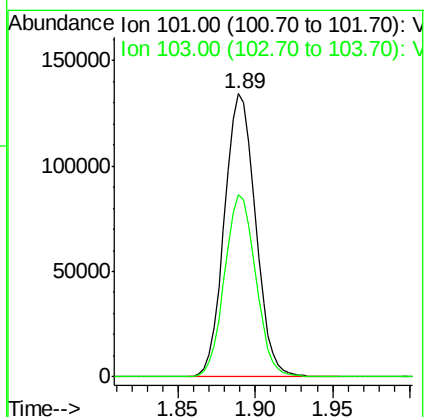
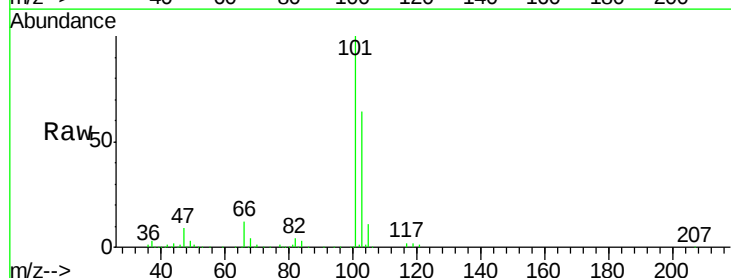
Acq: 20 Jul 2018 11:38

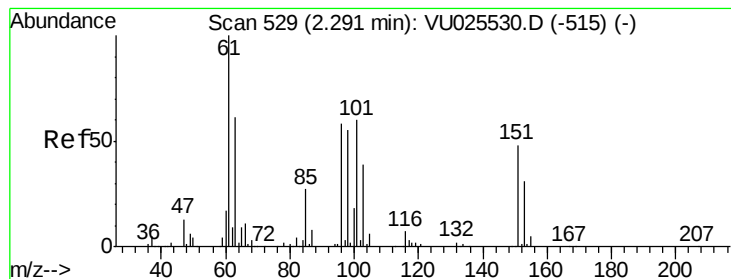
Tgt Ion: 101 Resp: 186888

Ion Ratio Lower Upper

101 100

103 64.4 52.0 78.0





#10

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

Concen: 50.341 ug/L

RT: 2.29 min Scan# 529

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

Instrument :

MSVOA_U

ClientSampled :

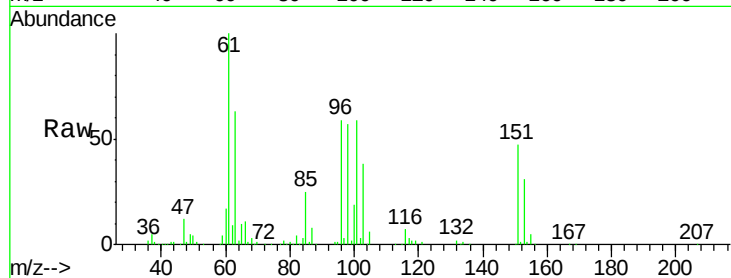
Tot Ion:101 Resp: 110159

Ion Ratio Lower Upper

101 100

85 43.5 35.5 53.3

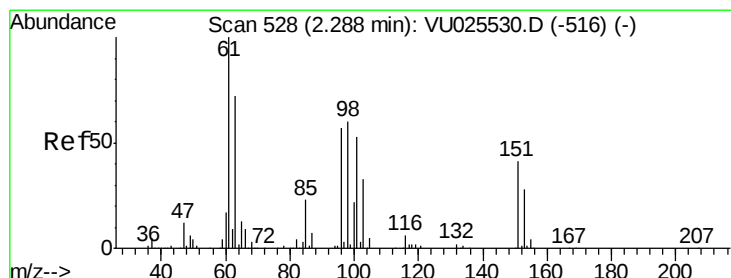
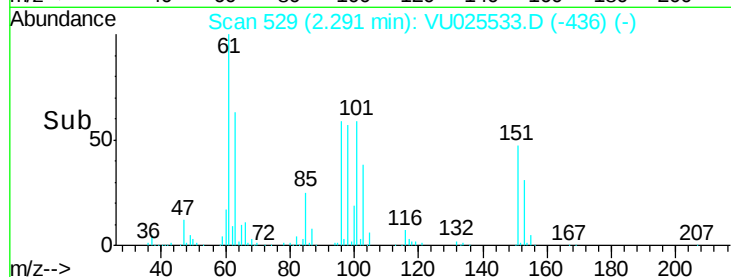
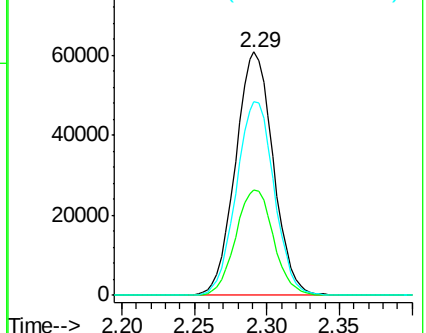
151 80.0 63.5 95.3



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: 49.714 ug/L

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

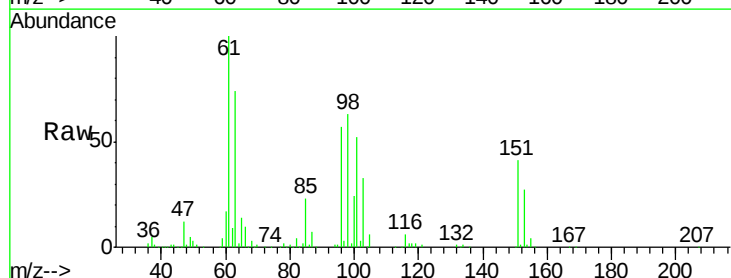
Tgt Ion: 96 Resp: 98647

Ion Ratio Lower Upper

96 100

61 175.1 122.5 227.5

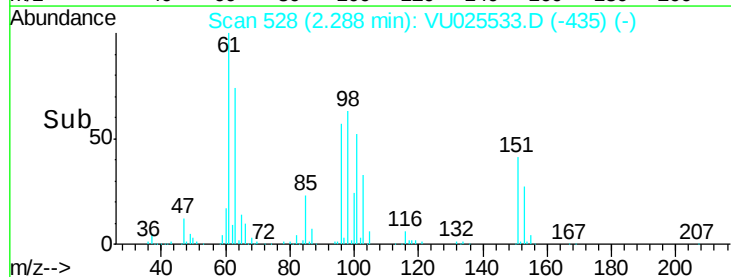
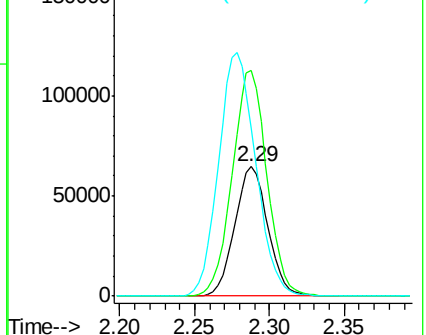
63 130.2 90.9 168.9

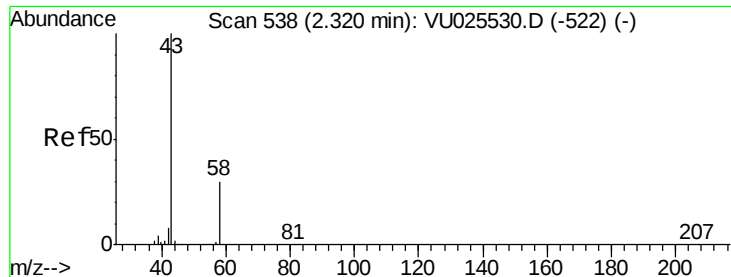


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 89.919 ug/L

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

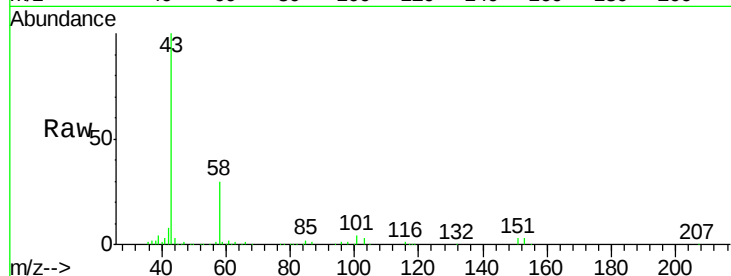
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 163553

Ion Ratio Lower Upper

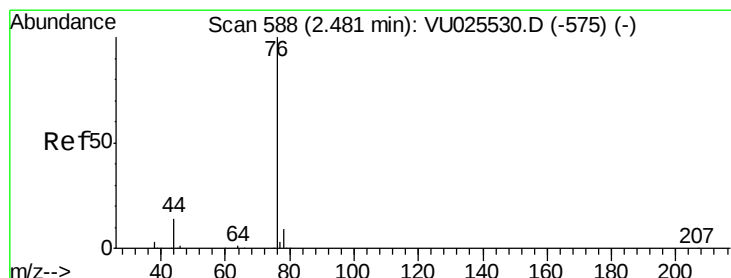
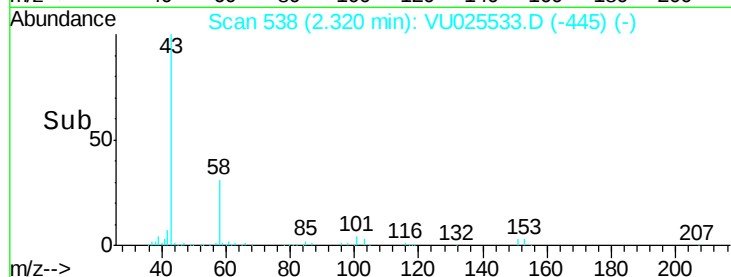
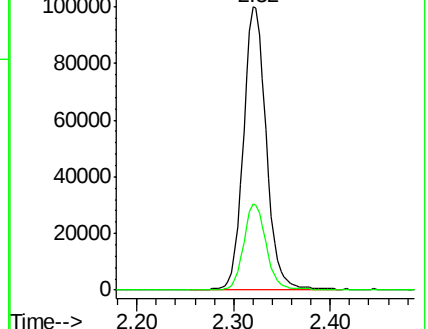
43 100

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: 48.780 ug/L

RT: 2.48 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU025533.D

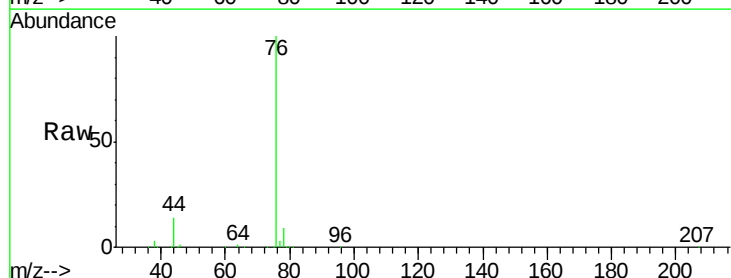
Acq: 20 Jul 2018 11:38

Tgt Ion: 76 Resp: 315181

Ion Ratio Lower Upper

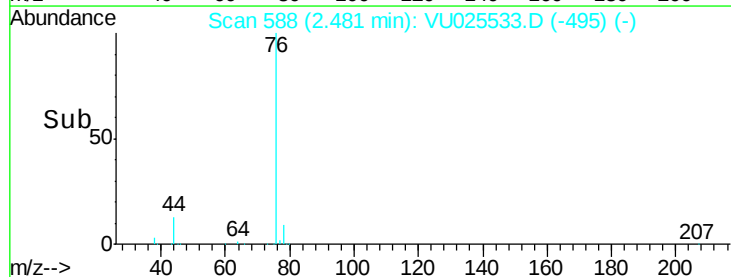
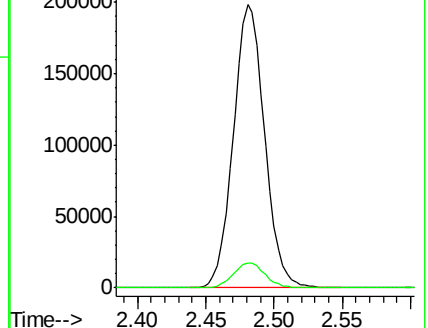
76 100

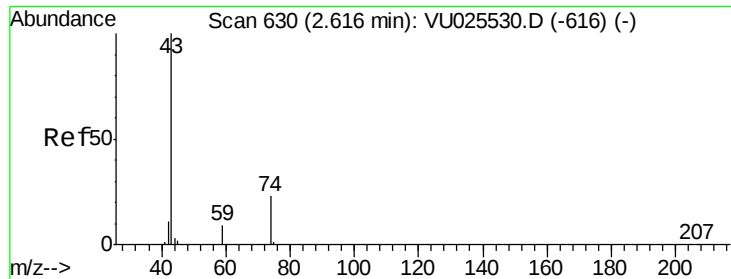
78 9.0 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methvl Acetate

Concen: 48.490 ug/L

RT: 2.62 min Scan# 630

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

Instrument :

MSVOA_U

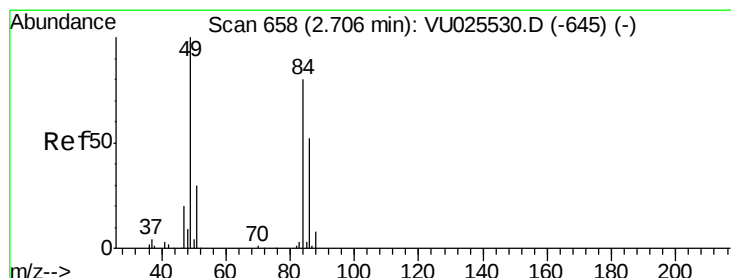
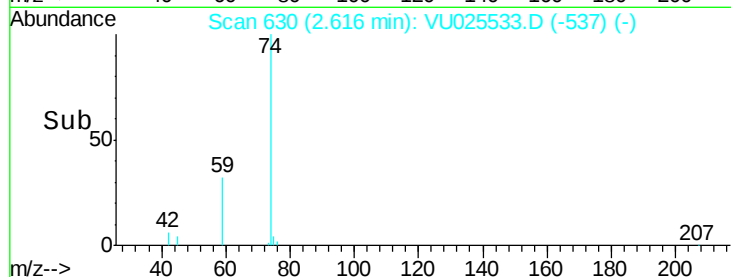
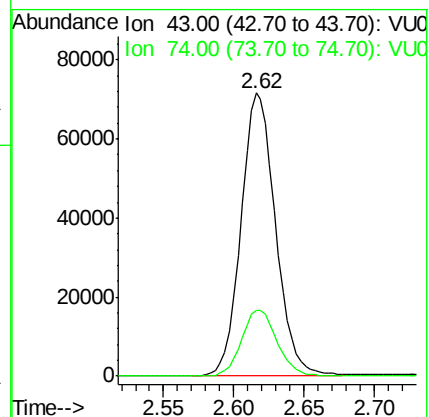
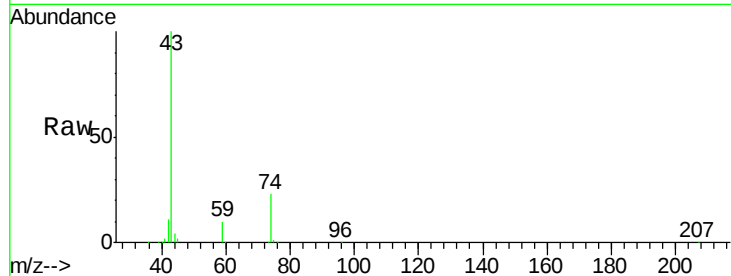
ClientSampleId :

Tot Ion: 43 Resp: 121921

Ion Ratio Lower Upper

43 100

74 24.1 18.3 27.5



#16

Methylene chloride

Concen: 48.204 ug/L

RT: 2.71 min Scan# 658

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

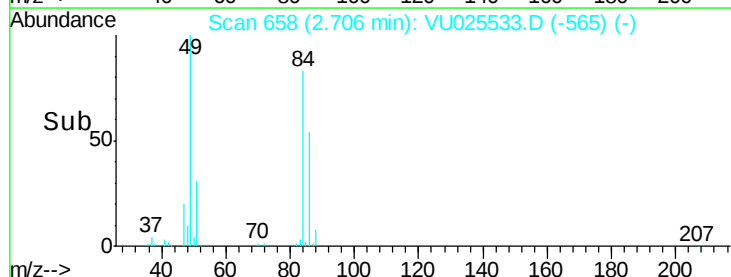
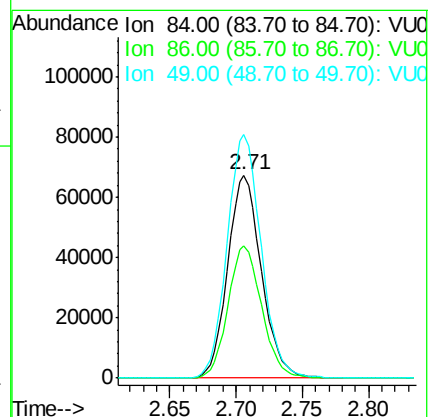
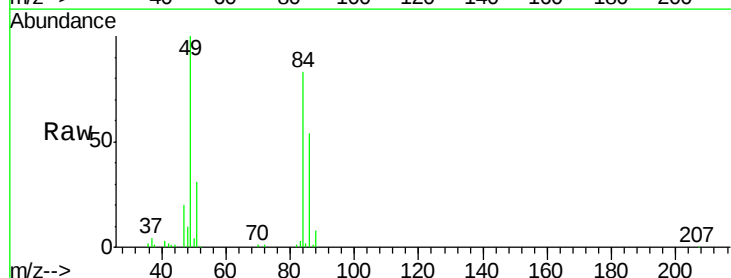
Tgt Ion: 84 Resp: 119151

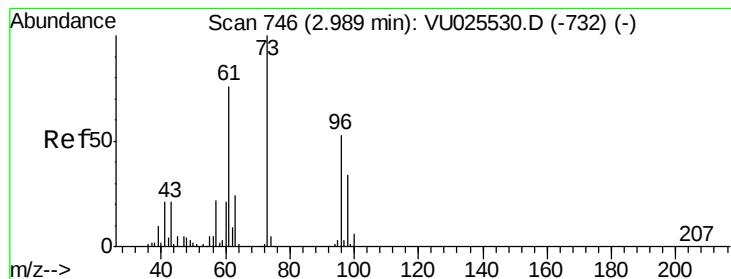
Ion Ratio Lower Upper

84 100

86 65.3 45.6 84.6

49 120.1 87.0 161.6





#17

trans-1,2-Dichloroethene

Concen: 48.945 ug/L

RT: 2.99 min Scan# 746

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

Instrument :
MSVOA_U
ClientSampleId :

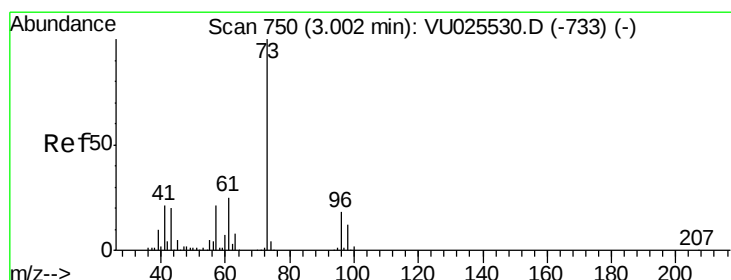
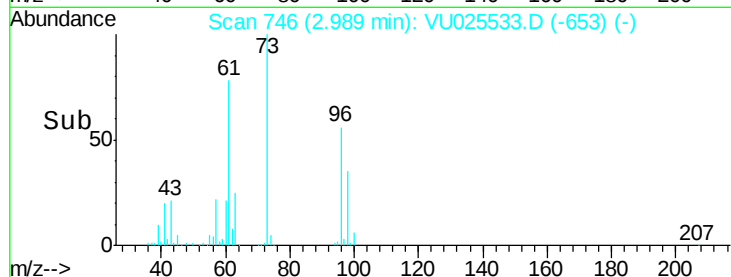
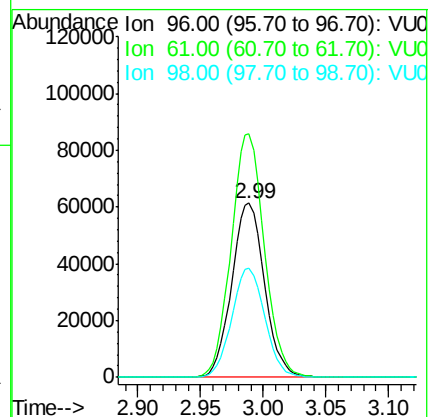
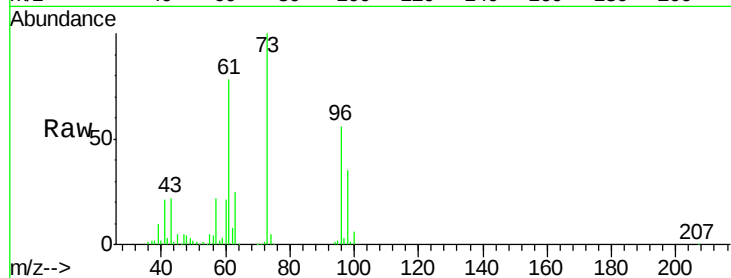
Tot Ion: 96 Resp: 111820

Ion Ratio Lower Upper

96 100

61 139.6 100.0 185.8

98 62.5 44.7 83.1



#18

Methyl tert-butyl Ether

Concen: 49.161 ug/L

RT: 3.00 min Scan# 750

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

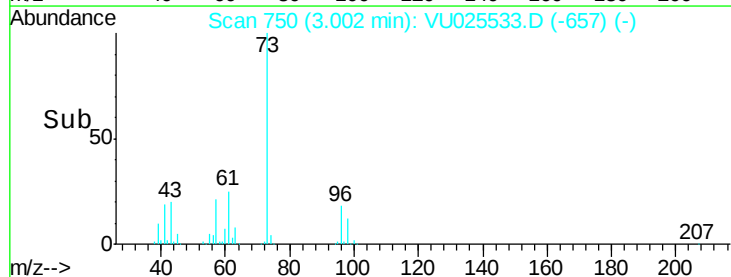
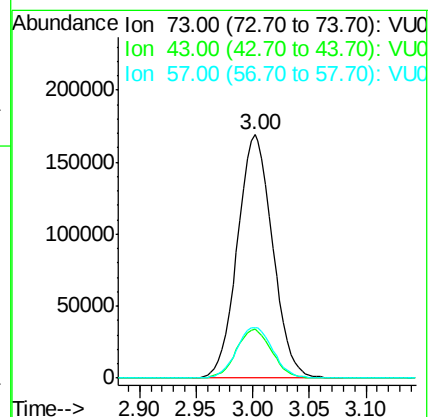
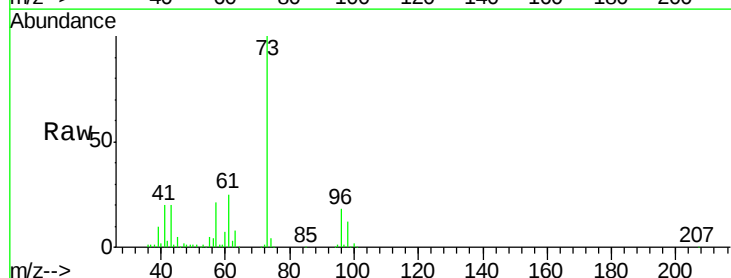
Tgt Ion: 73 Resp: 365783

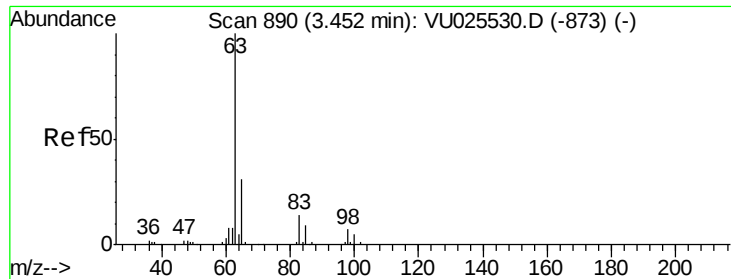
Ion Ratio Lower Upper

73 100

43 20.4 16.2 24.2

57 21.6 17.1 25.7

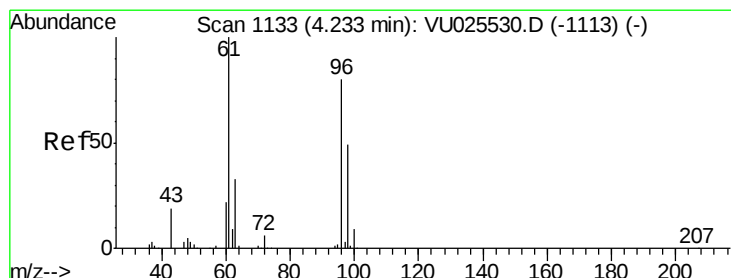
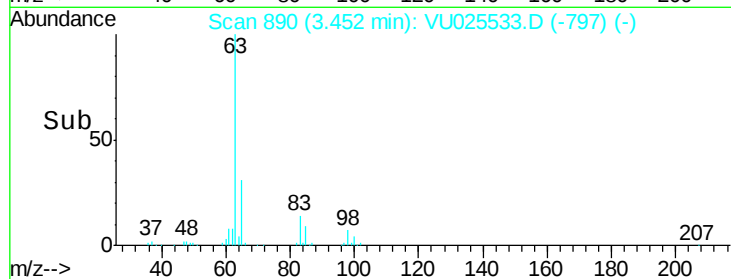
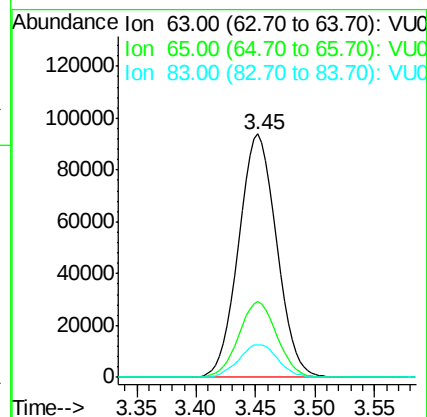
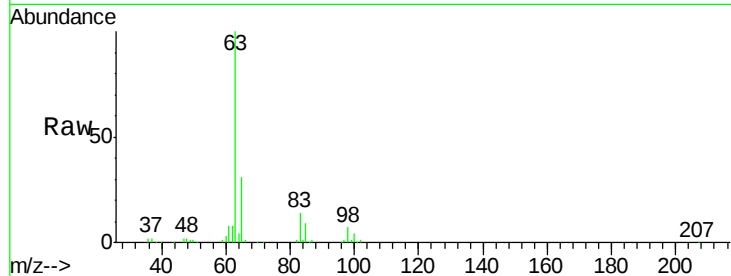




#19
 1,1-Dichloroethane
 Concen: 47.903 ug/L
 RT: 3.45 min Scan# 890
 Delta R.T. -0.00 min
 Lab File: VU025533.D
 Acq: 20 Jul 2018 11:38

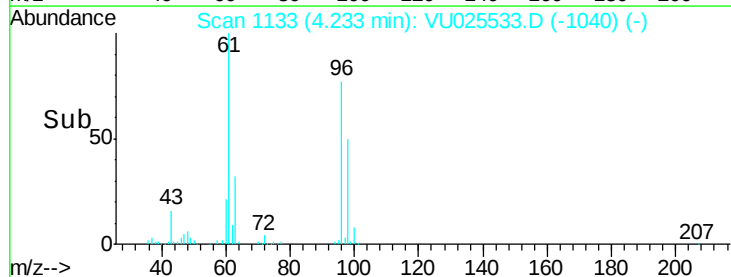
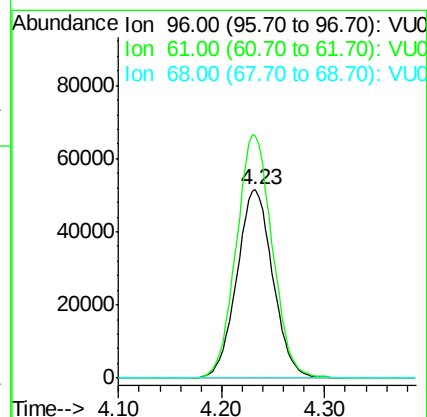
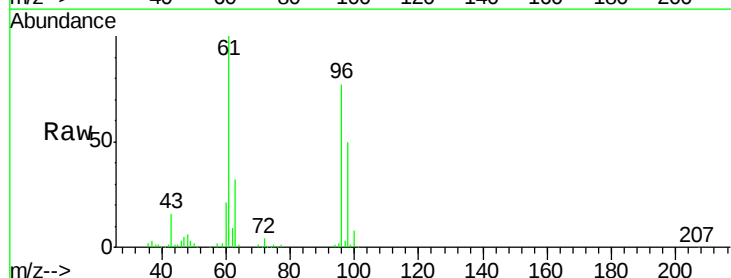
Instrument :
 MSVOA_U
 ClientSampleId :

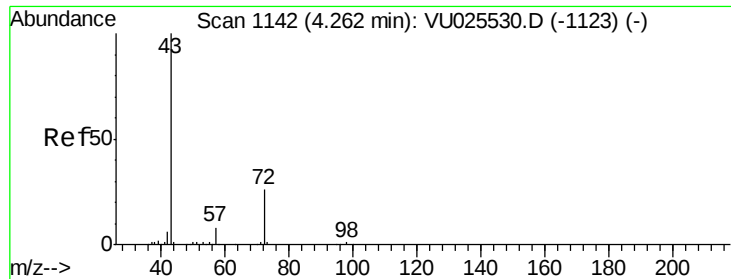
Tot Ion: 63 Resp: 208180
 Ion Ratio Lower Upper
 63 100
 65 31.0 22.0 41.0
 83 13.5 9.6 17.8



#20
 cis-1,2-Dichloroethene
 Concen: 48.551 ug/L
 RT: 4.23 min Scan# 1133
 Delta R.T. -0.00 min
 Lab File: VU025533.D
 Acq: 20 Jul 2018 11:38

Tgt Ion: 96 Resp: 125204
 Ion Ratio Lower Upper
 96 100
 61 129.0 87.4 162.2
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 92.546 ug/L

RT: 4.26 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

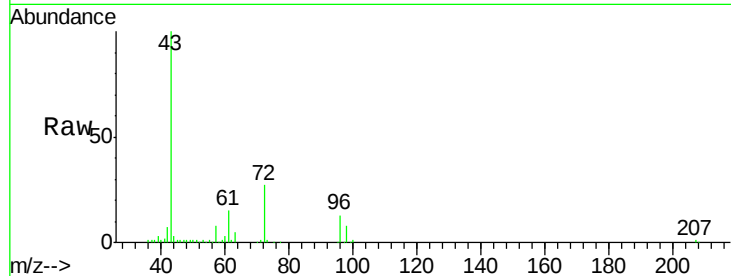
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 187395

Ion Ratio Lower Upper

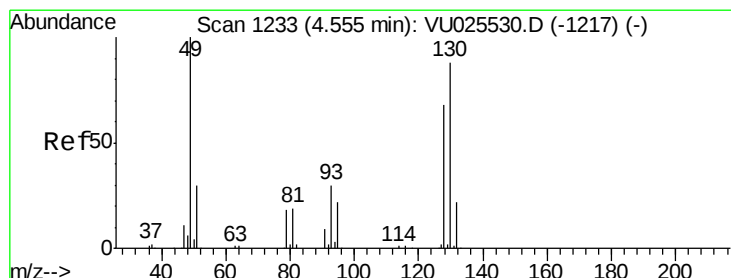
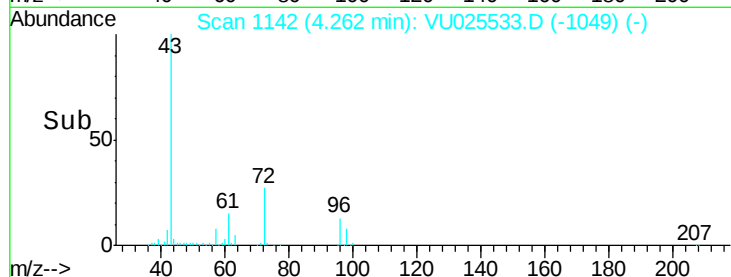
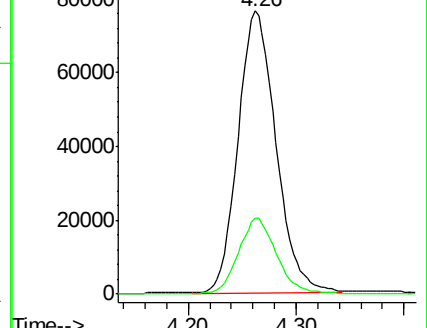
43 100

72 27.1 13.6 40.8



Abundance Ion 43.00 (42.70 to 43.70): VU025533.D (-1142) (-)

Ion 72.00 (71.70 to 72.70): VU025533.D (-1142) (-)



#23

Bromochloromethane

Concen: 49.437 ug/L

RT: 4.55 min Scan# 1233

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

Tgt Ion: 128 Resp: 67291

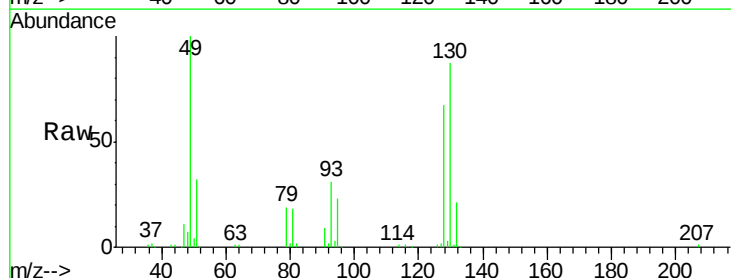
Ion Ratio Lower Upper

128 100

49 148.5 103.3 191.8

130 129.9 90.4 167.8

51 47.6 35.5 53.3

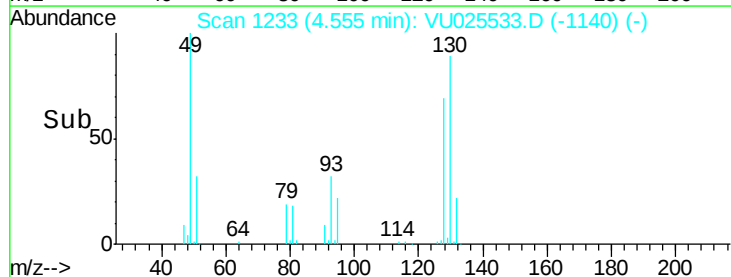
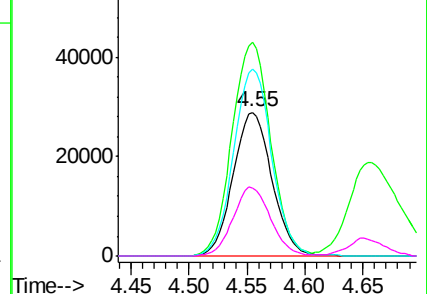


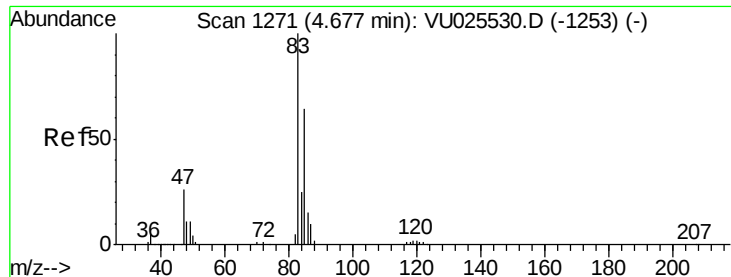
Abundance Ion 128.00 (127.70 to 128.70): VU025533.D (-1233) (-)

Ion 49.00 (48.70 to 49.70): VU025533.D (-1233) (-)

Ion 130.00 (129.70 to 130.70): VU025533.D (-1233) (-)

Ion 51.00 (50.70 to 51.70): VU025533.D (-1233) (-)





#25

Chloroform

Concen: 48.198 ug/L

RT: 4.68 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

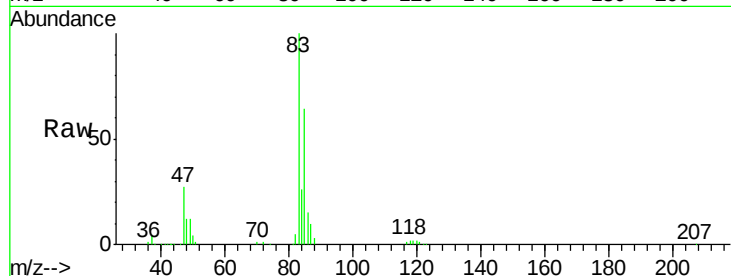
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 220414

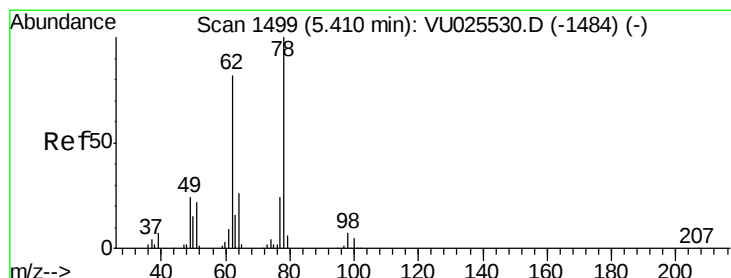
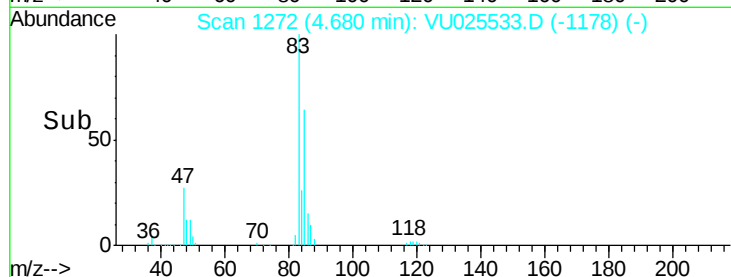
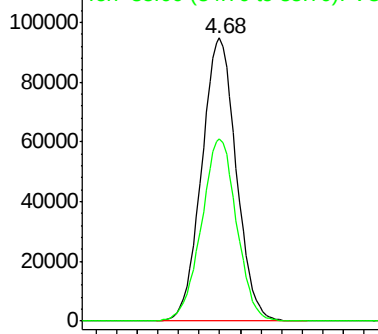
Ion Ratio Lower Upper

83 100

85 64.5 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: 48.882 ug/L

RT: 5.41 min Scan# 1499

Delta R.T. -0.00 min

Lab File: VU025533.D

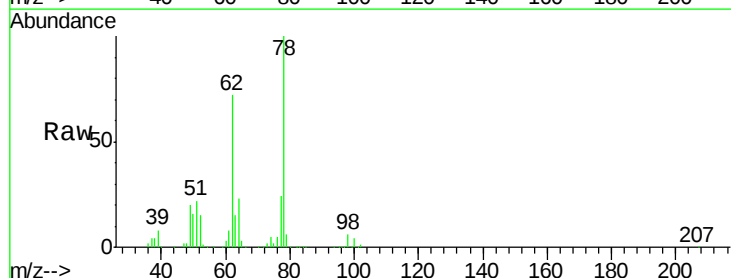
Acq: 20 Jul 2018 11:38

Tgt Ion: 62 Resp: 182330

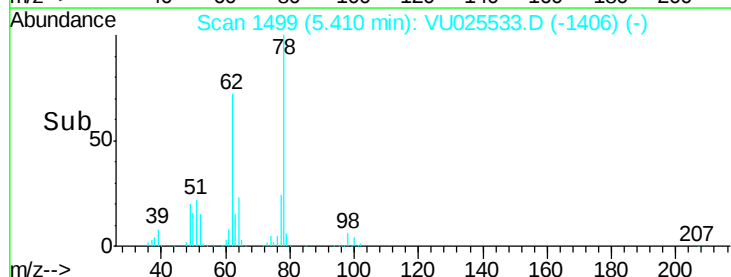
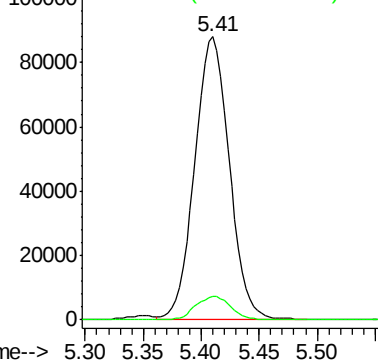
Ion Ratio Lower Upper

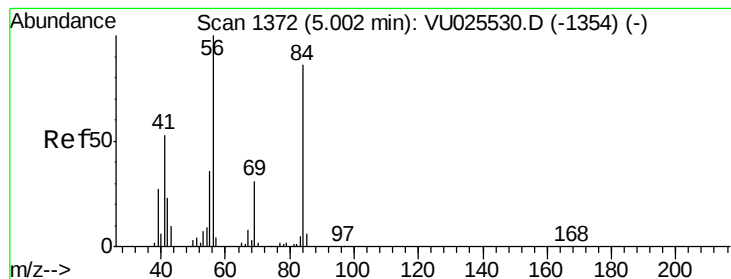
62 100

98 8.2 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: 48.479 ug/L

RT: 5.00 min Scan# 1372

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

Instrument :
MSVOA_U
ClientSampleId :

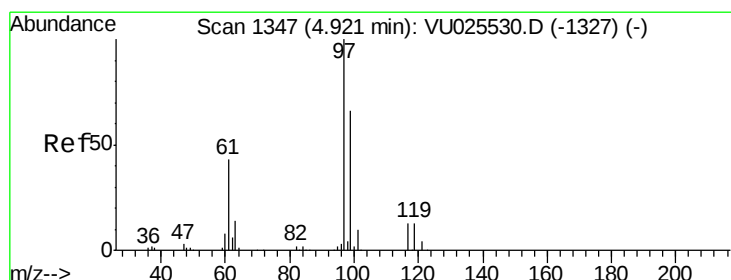
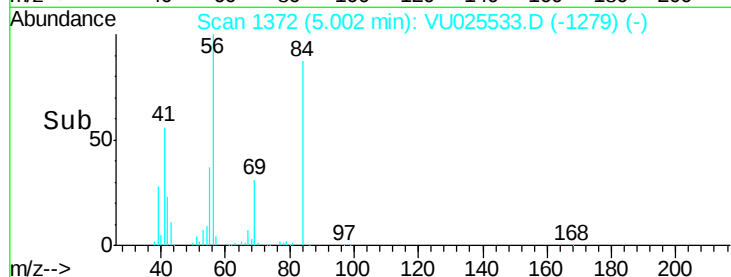
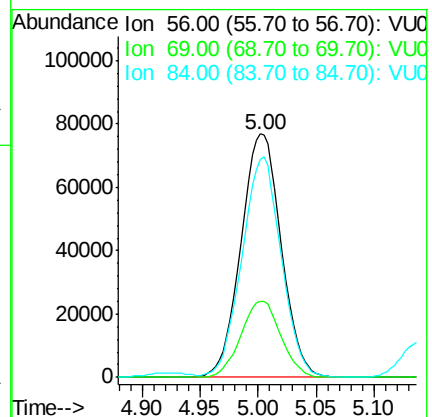
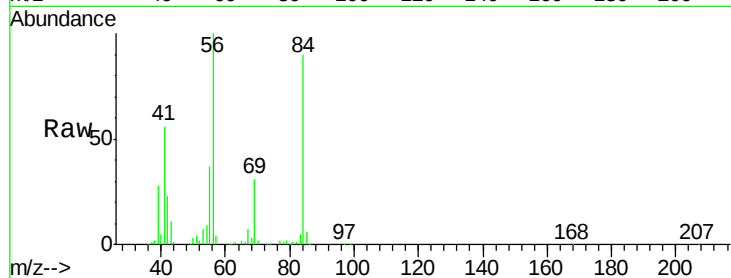
Tot Ion: 56 Resp: 185063

Ion Ratio Lower Upper

56 100

69 31.1 24.8 37.2

84 88.5 70.6 106.0



#30

1,1,1-Trichloroethane

Concen: 48.457 ug/L

RT: 4.92 min Scan# 1347

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

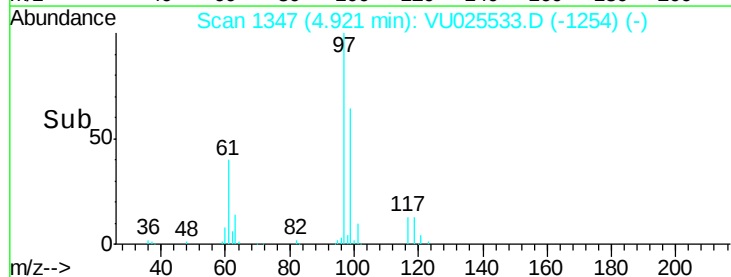
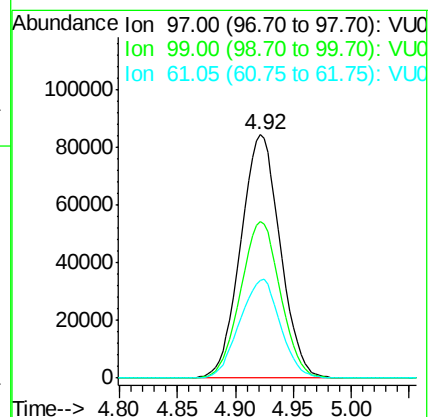
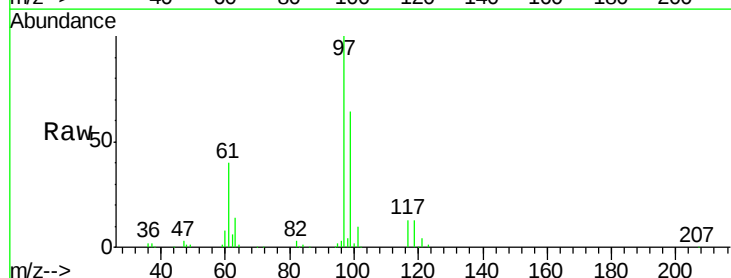
Tgt Ion: 97 Resp: 199795

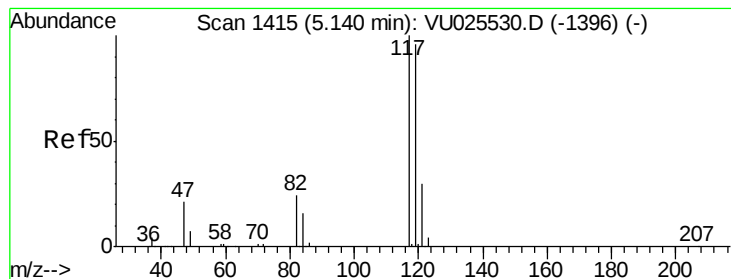
Ion Ratio Lower Upper

97 100

99 65.0 52.4 78.6

61 41.8 34.6 52.0





#31

Carbon tetrachloride

Concen: 47.689 ug/L

RT: 5.14 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

Instrument :

MSVOA_U

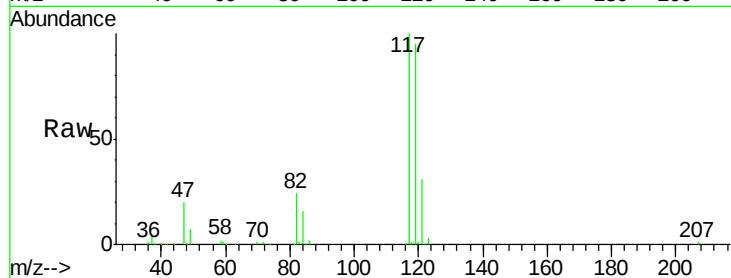
ClientSampleId :

Tot Ion:117 Resp: 181817

Ion Ratio Lower Upper

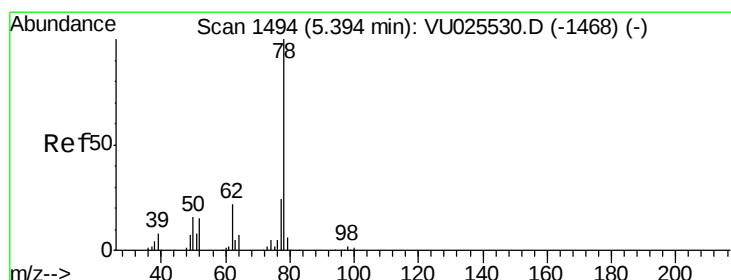
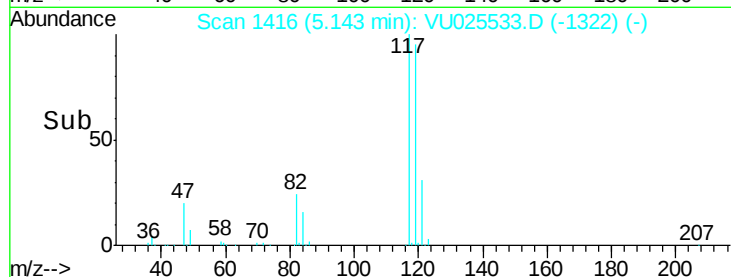
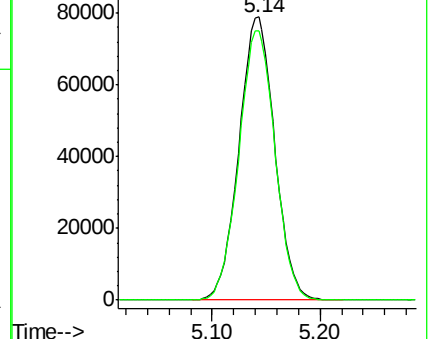
117 100

119 96.3 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: 48.534 ug/L

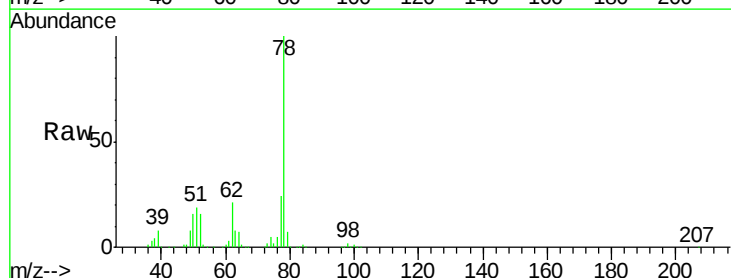
RT: 5.39 min Scan# 1494

Delta R.T. -0.00 min

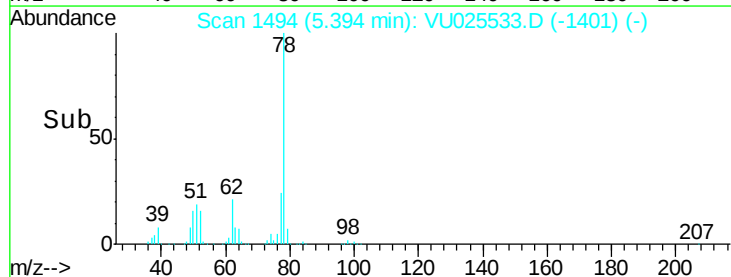
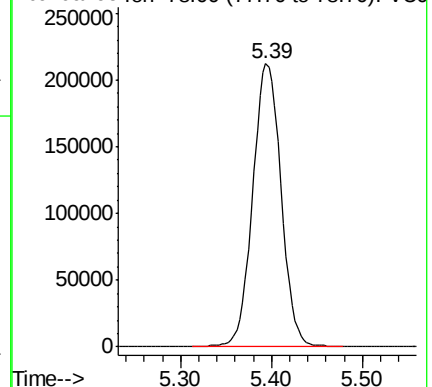
Lab File: VU025533.D

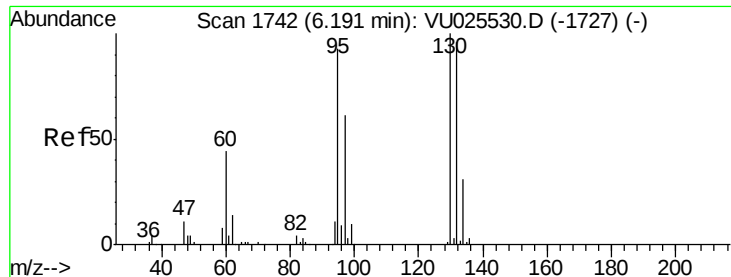
Acq: 20 Jul 2018 11:38

Tgt Ion: 78 Resp: 459501



Abundance Ion 78.00 (77.70 to 78.70): VU0

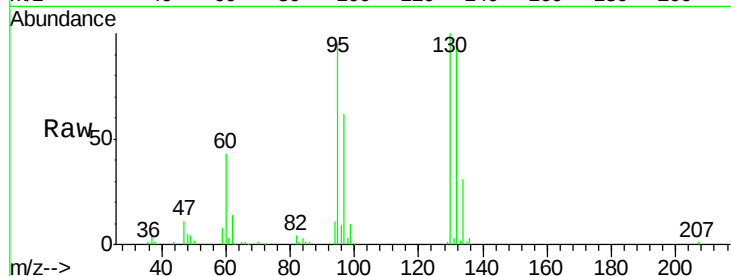




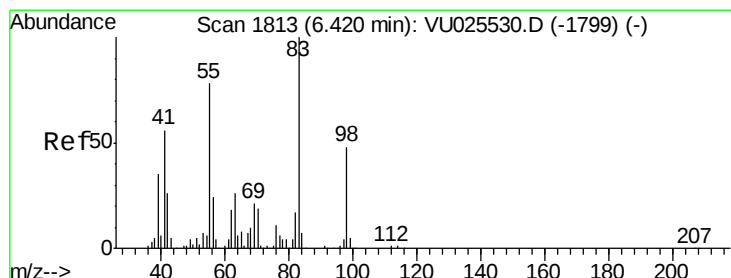
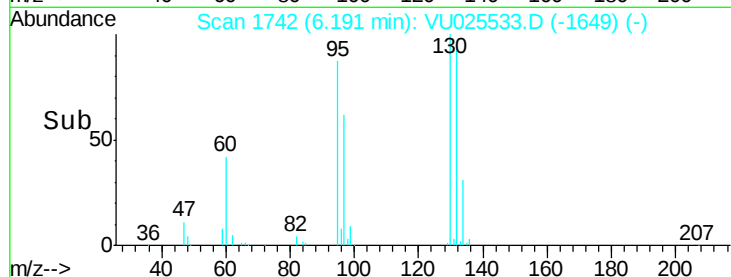
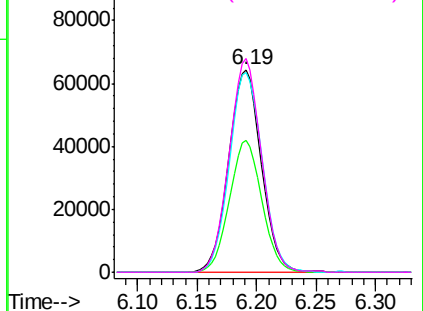
#34
 Trichloroethene
 Concen: 48.845 ug/L
 RT: 6.19 min Scan# 1742
 Delta R.T. -0.00 min
 Lab File: VU025533.D
 Acq: 20 Jul 2018 11:38

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion:	95	Resp:	122701
Ion	Ratio	Lower	Upper
95	100		
97	65.3	45.9	85.3
132	98.5	72.2	134.2
130	105.4	74.9	139.1

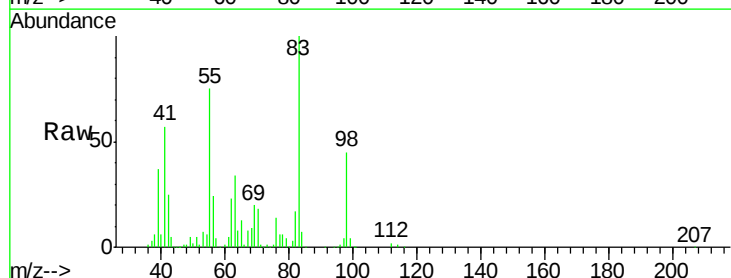


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

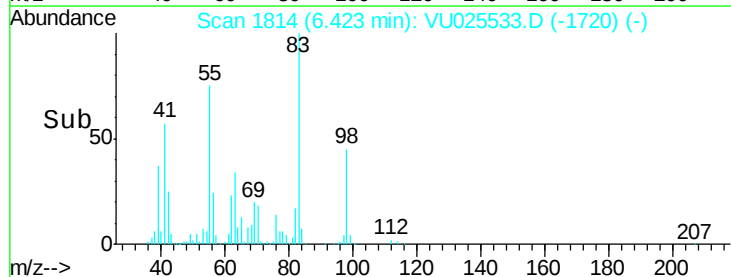
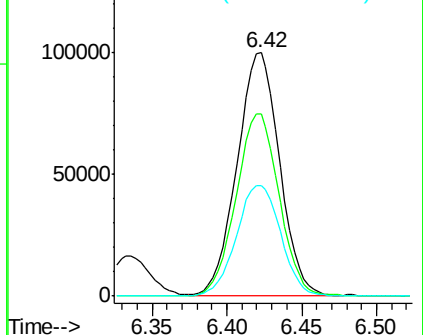


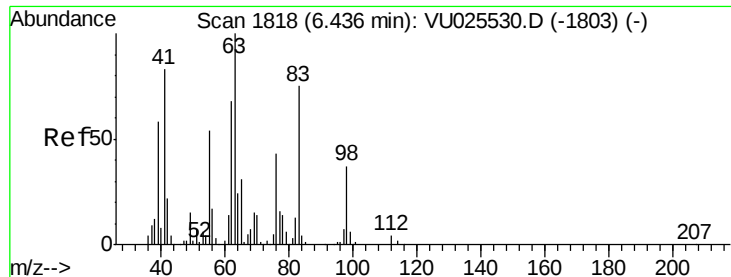
#35
 Methylcyclohexane
 Concen: 48.823 ug/L
 RT: 6.42 min Scan# 1814
 Delta R.T. 0.00 min
 Lab File: VU025533.D
 Acq: 20 Jul 2018 11:38

Tgt Ion:	83	Resp:	197754
Ion	Ratio	Lower	Upper
83	100		
55	76.0	61.1	91.7
98	47.3	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: 47.808 ug/L

RT: 6.44 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

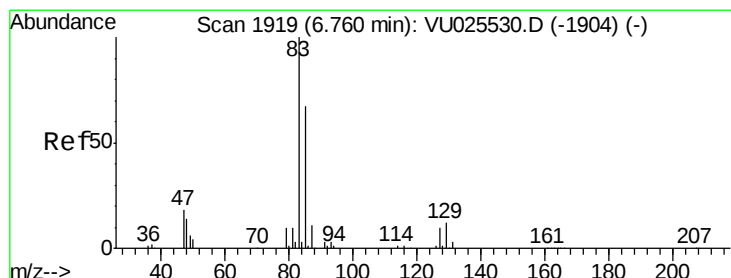
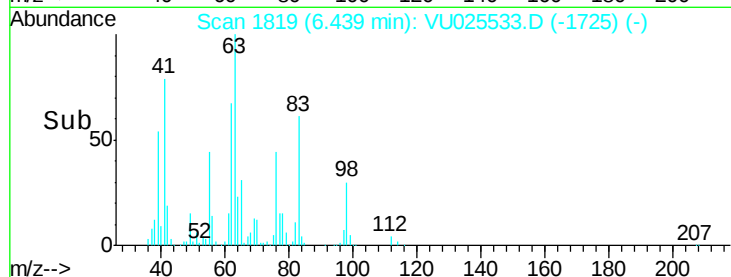
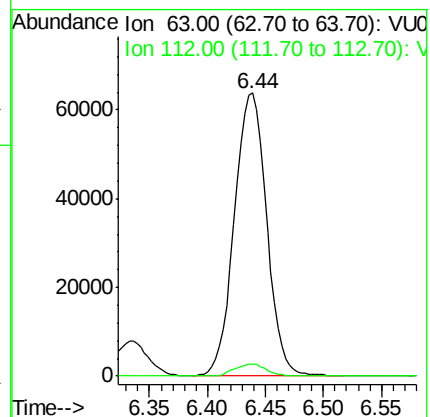
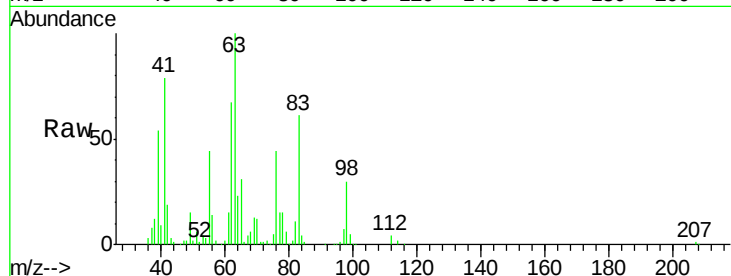
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 63 Resp: 123687

Ion Ratio Lower Upper

63 100

112 4.2 3.3 4.9



#38

Bromodichloromethane

Concen: 48.314 ug/L

RT: 6.76 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

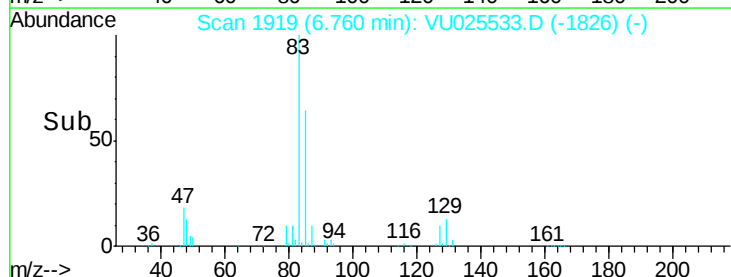
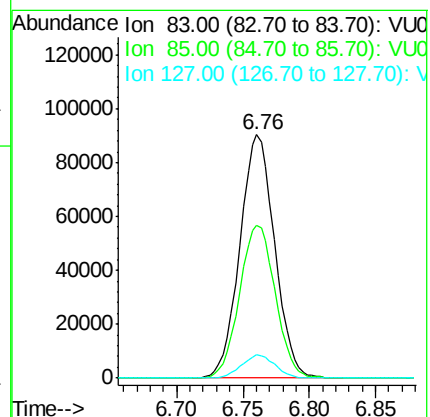
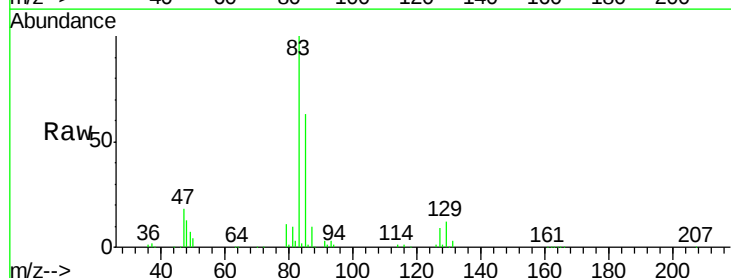
Tgt Ion: 83 Resp: 164803

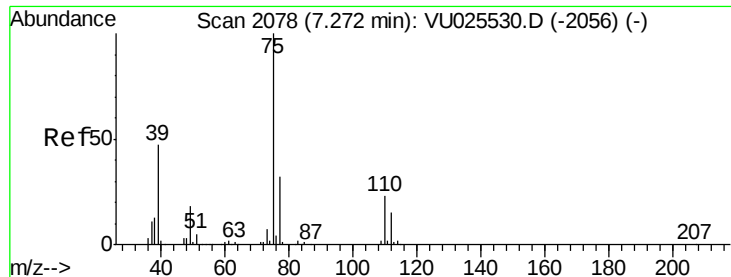
Ion Ratio Lower Upper

83 100

85 62.9 46.7 86.7

127 9.4 8.0 12.0



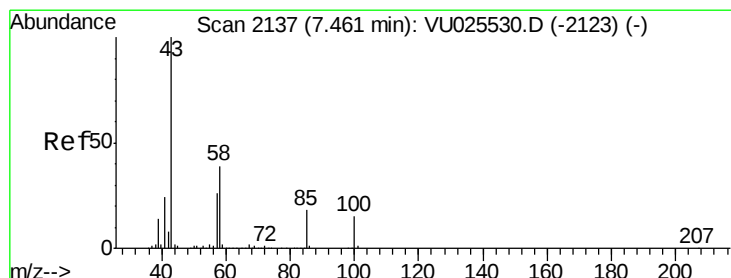
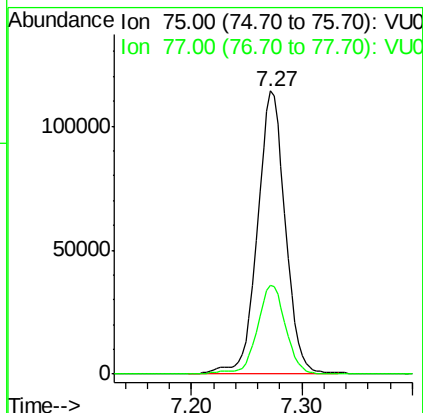
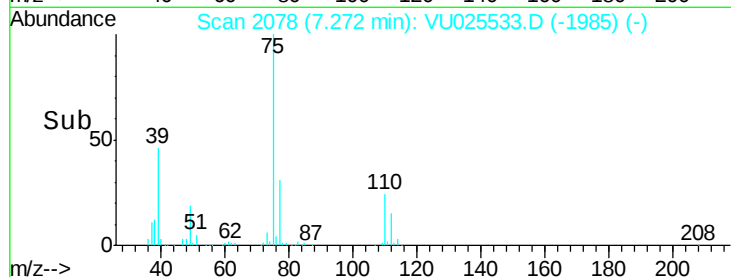
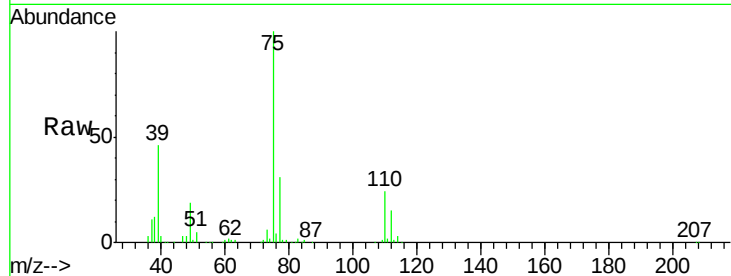


#39

cis-1,3-Dichloropropene
 Concen: 50.023 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VU025533.D
 Acq: 20 Jul 2018 11:38

Instrument :
 MSVOA_U
 ClientSampled :

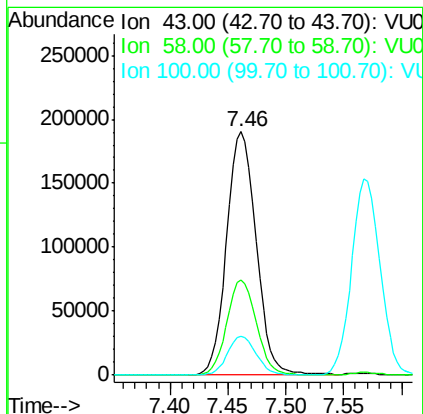
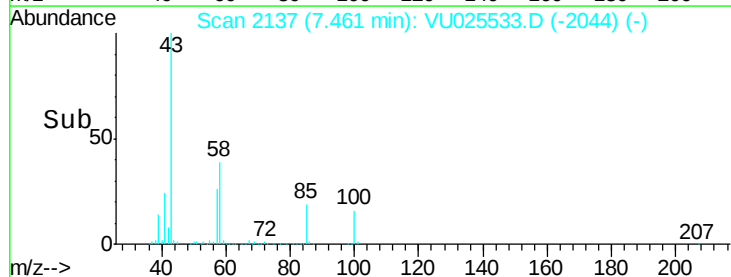
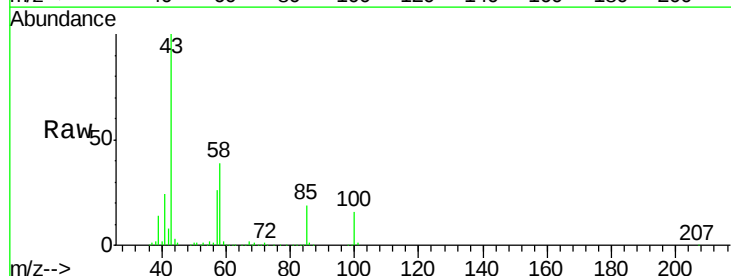
Tot Ion: 75 Resp: 200840
 Ion Ratio Lower Upper
 75 100
 77 31.3 22.0 41.0

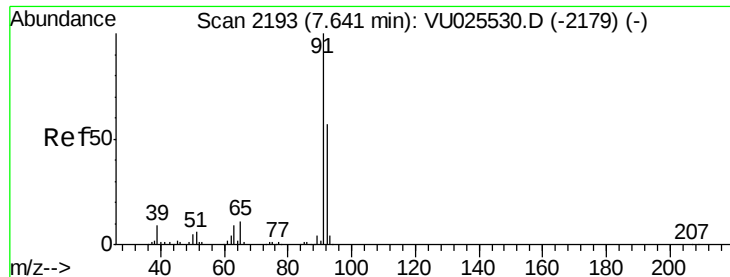


#40

4-Methyl-2-pentanone
 Concen: 99.344 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. -0.00 min
 Lab File: VU025533.D
 Acq: 20 Jul 2018 11:38

Tgt Ion: 43 Resp: 337521
 Ion Ratio Lower Upper
 43 100
 58 38.7 30.8 46.2
 100 15.6 12.1 18.1





#42

Toluene

Concen: 49.044 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

Instrument :

MSVOA_U

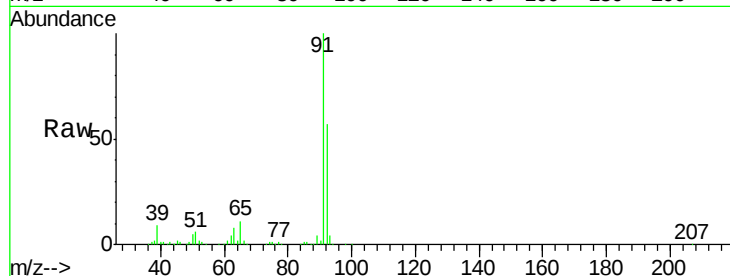
ClientSampleId :

Tot Ion: 91 Resp: 500732

Ion Ratio Lower Upper

91 100

92 57.2 40.0 74.2



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

7.64

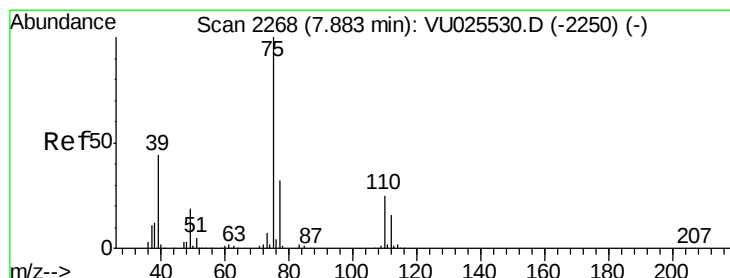
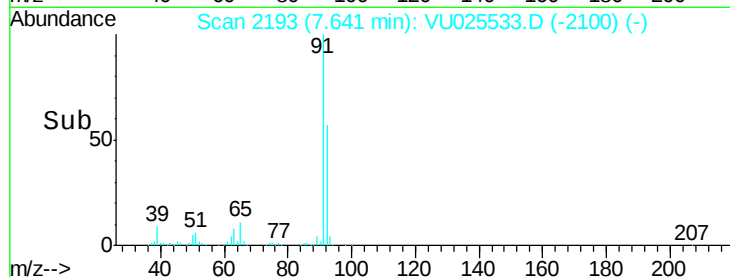
300000

200000

100000

0

Time--> 7.55 7.60 7.65 7.70



#44

trans-1,3-Dichloropropene

Concen: 50.113 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU025533.D

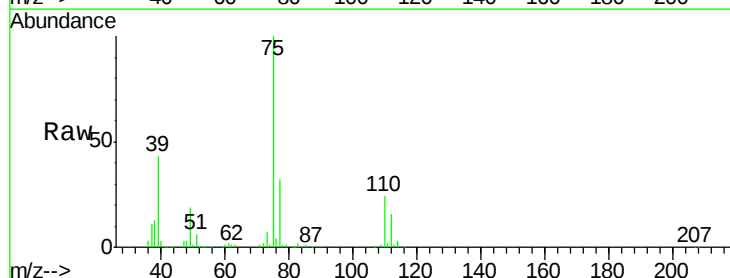
Acq: 20 Jul 2018 11:38

Tgt Ion: 75 Resp: 189707

Ion Ratio Lower Upper

75 100

77 31.7 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

7.88

120000

100000

80000

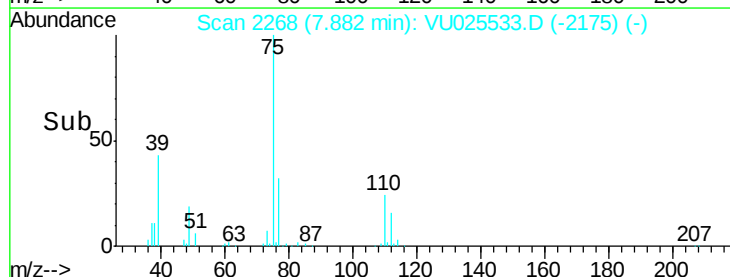
60000

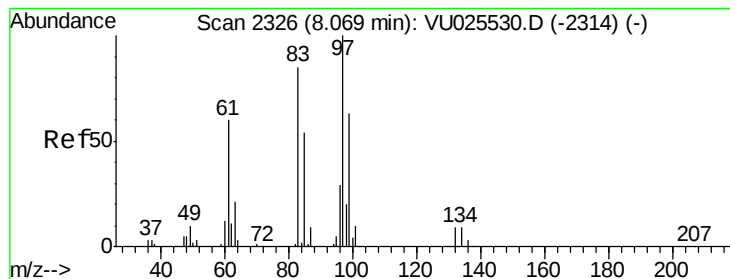
40000

20000

0

Time--> 7.80 7.85 7.90 7.95





#45

1,1,2-Trichloroethane

Concen: 47.702 ug/L

RT: 8.07 min Scan# 2326

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 118377

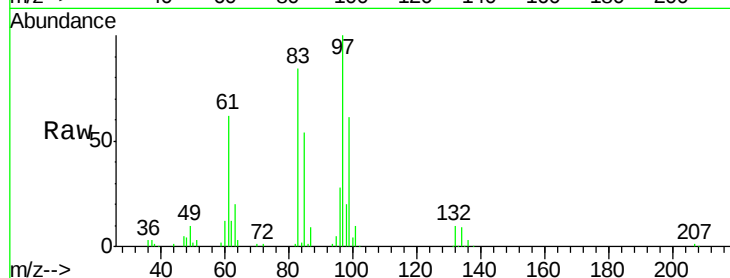
Ion	Ratio	Lower	Upper
97	100		
99	60.7	44.3	82.3
83	83.8	59.8	111.1
85	53.9	37.9	70.5

97 100

99 60.7 44.3 82.3

83 83.8 59.8 111.1

85 53.9 37.9 70.5



Abundance

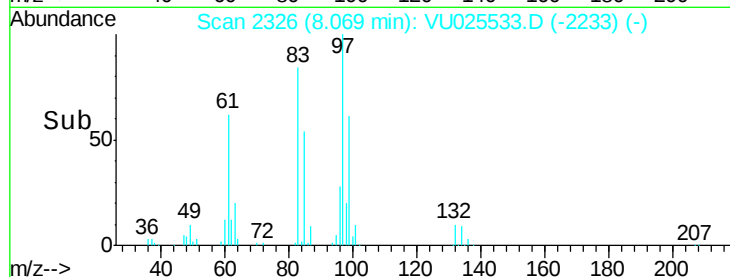
Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

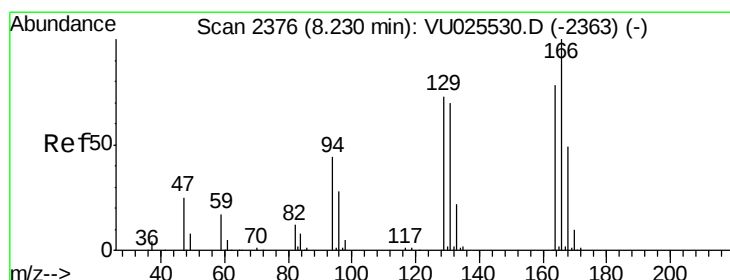
Ion 85.00 (84.70 to 85.70): VU0

Time-->



8.07

Time-->



#46

Tetrachloroethene

Concen: 48.861 ug/L

RT: 8.23 min Scan# 2376

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

Tgt Ion: 164 Resp: 106409

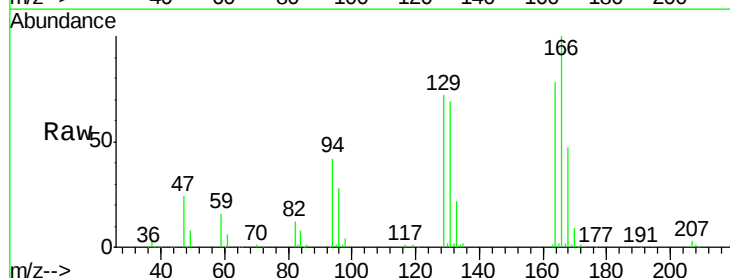
Ion	Ratio	Lower	Upper
164	100		
129	92.5	65.1	120.9
131	88.6	62.8	116.6
166	128.5	89.7	166.7

164 100

129 92.5 65.1 120.9

131 88.6 62.8 116.6

166 128.5 89.7 166.7



Abundance

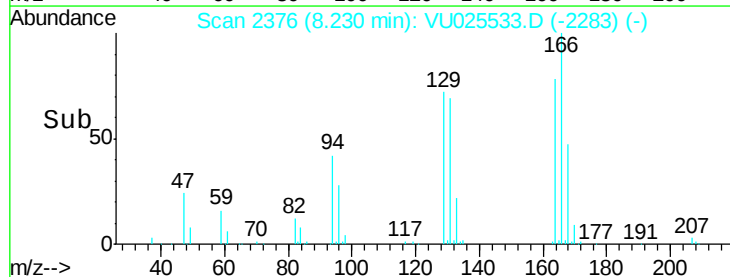
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

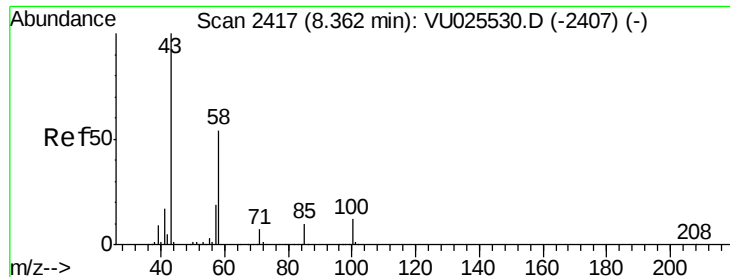
Ion 166.00 (165.70 to 166.70): V

Time-->



8.23

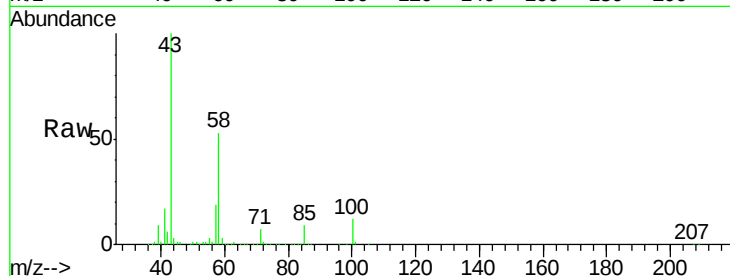
Time-->



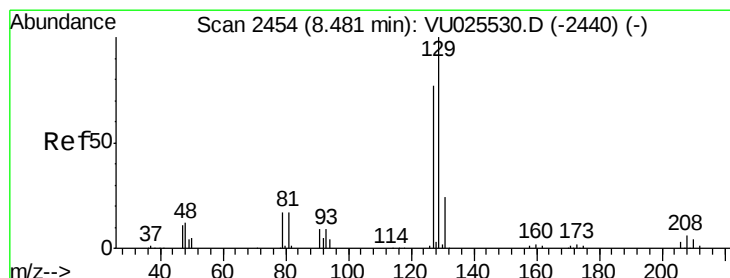
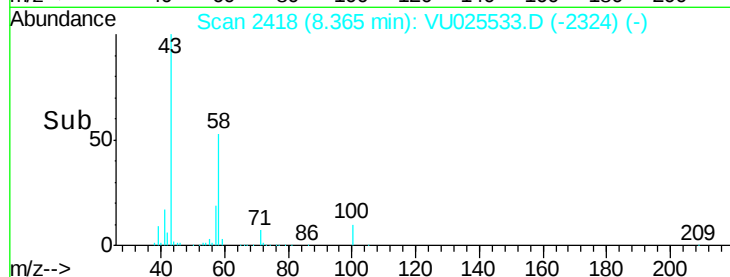
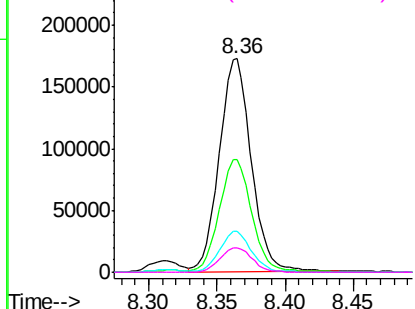
#48
2-Hexanone
Concen: 97.957 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU025533.D
Acq: 20 Jul 2018 11:38

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	43	Resp:	281220
Ion	Ratio	Lower	Upper
43	100		
58	53.1	42.9	64.3
57	19.2	15.4	23.2
100	11.9	9.6	14.4

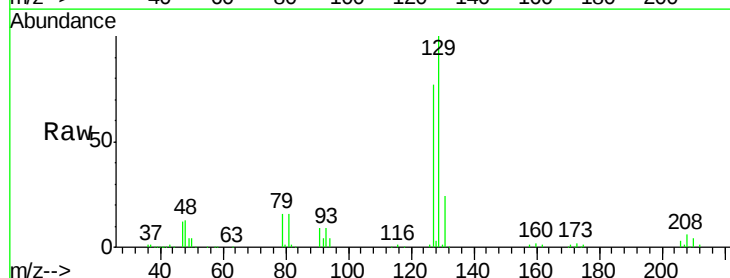


Abundance Ion 43.00 (42.70 to 43.70): VU025533.D (-2407) (-)
Ion 58.00 (57.70 to 58.70): VU025533.D (-2407) (-)
Ion 57.00 (56.70 to 57.70): VU025533.D (-2407) (-)
Ion 100.00 (99.70 to 100.70): VU025533.D (-2407) (-)

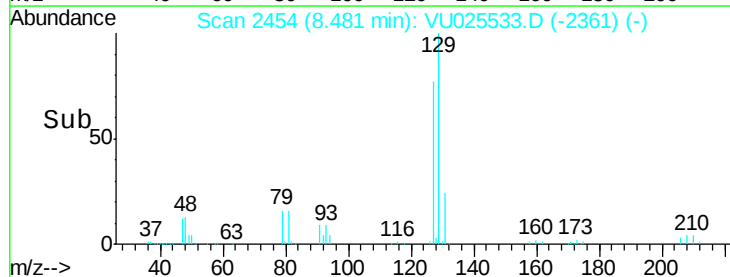
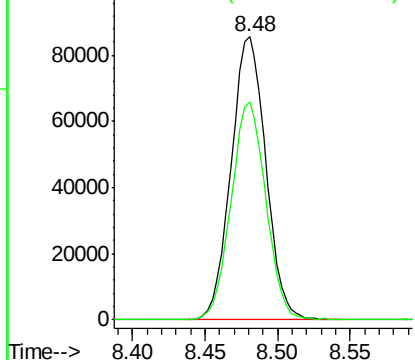


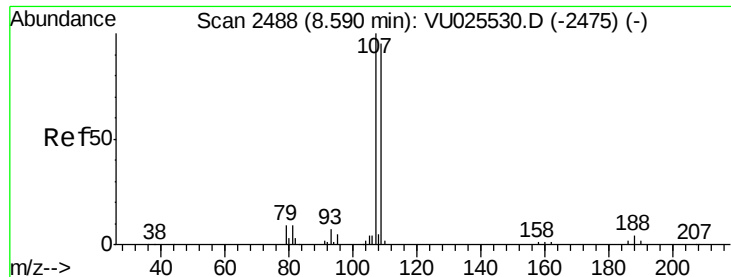
#49
Dibromochloromethane
Concen: 49.051 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU025533.D
Acq: 20 Jul 2018 11:38

Tgt Ion:	129	Resp:	142789
Ion	Ratio	Lower	Upper
129	100		
127	77.2	53.8	100.0



Abundance Ion 129.00 (128.70 to 129.70): VU025533.D (-2440) (-)
Ion 127.00 (126.70 to 127.70): VU025533.D (-2440) (-)

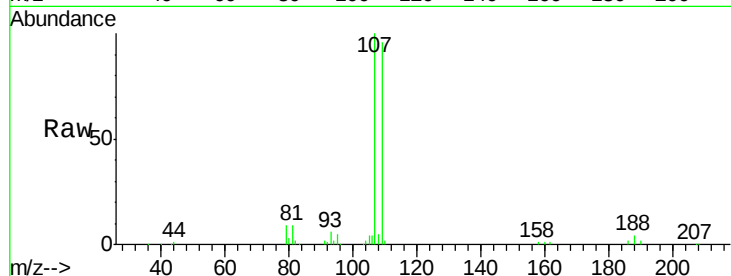




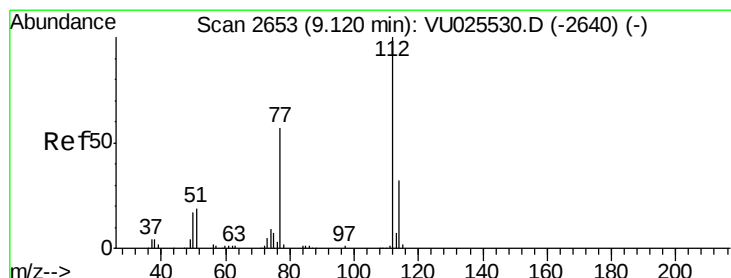
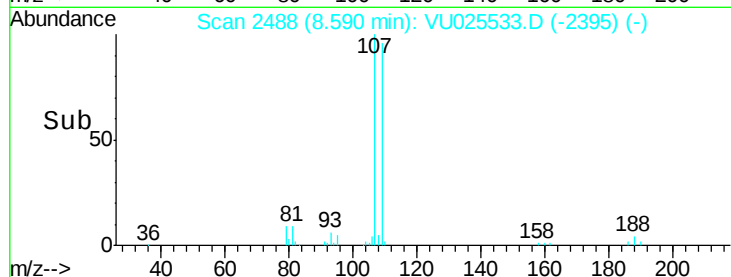
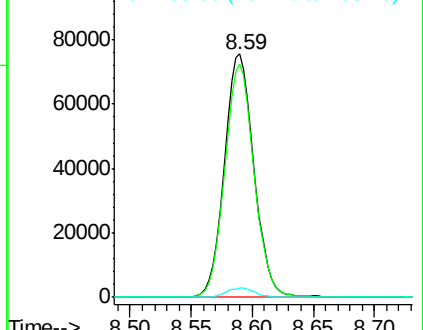
#50
 1,2-Dibromoethane
 Concen: 48.045 ug/L
 RT: 8.59 min Scan# 2488
 Delta R.T. -0.00 min
 Lab File: VU025533.D
 Acq: 20 Jul 2018 11:38

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.0	66.6	123.8
188	3.7	3.2	4.8

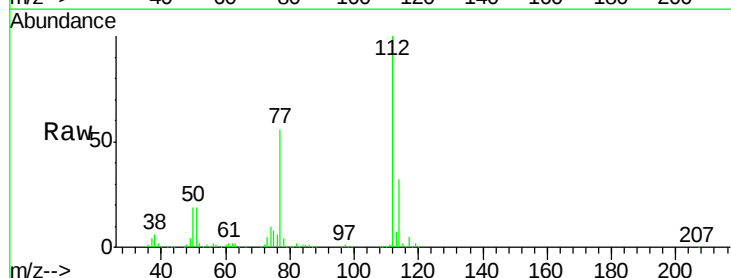


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

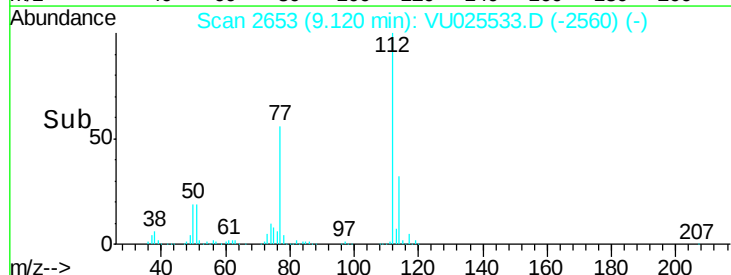
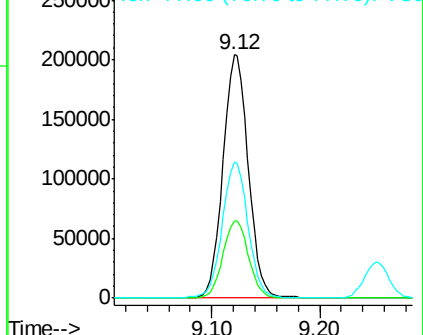


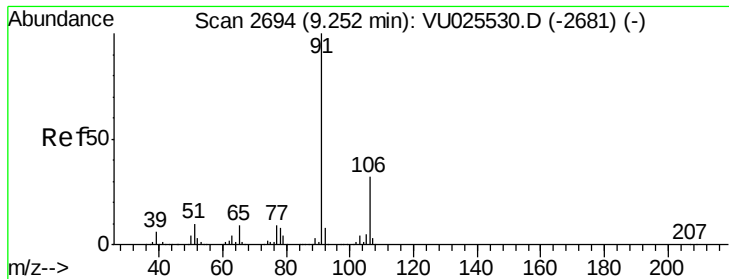
#51
 Chlorobenzene
 Concen: 48.591 ug/L
 RT: 9.12 min Scan# 2653
 Delta R.T. -0.00 min
 Lab File: VU025533.D
 Acq: 20 Jul 2018 11:38

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.6	22.5	41.9
77	56.1	45.8	68.8



Abundance Ion 112.00 (111.70 to 112.70): V
 Ion 114.00 (113.70 to 114.70): V
 Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 49.534 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

Instrument :

MSVOA_U

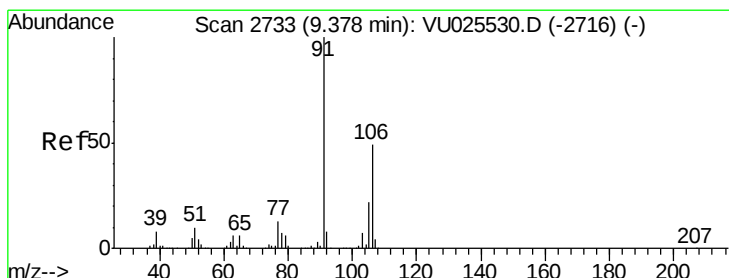
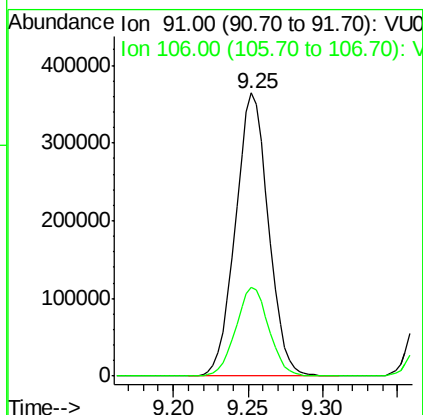
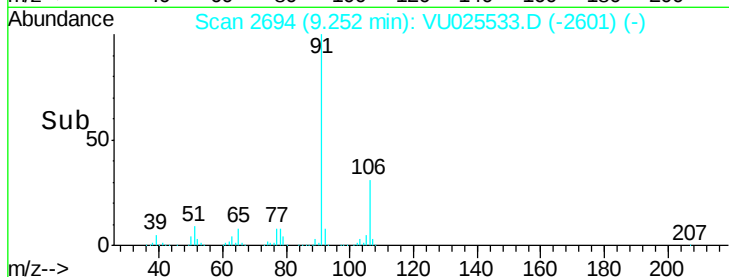
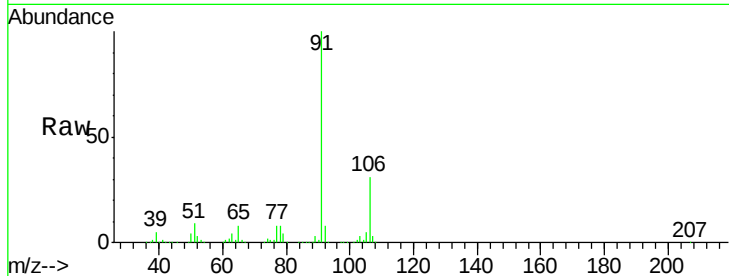
ClientSampled :

Tot Ion: 91 Resp: 558195

Ion Ratio Lower Upper

91 100

106 31.5 22.3 41.5



#53

m,p-Xylene

Concen: 50.042 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU025533.D

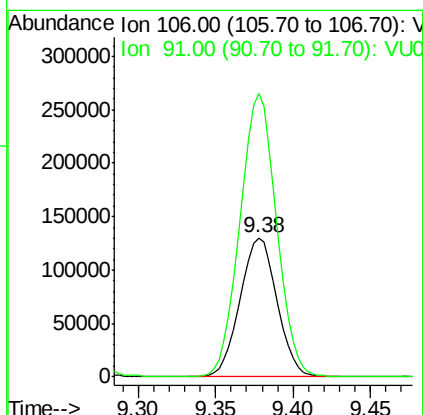
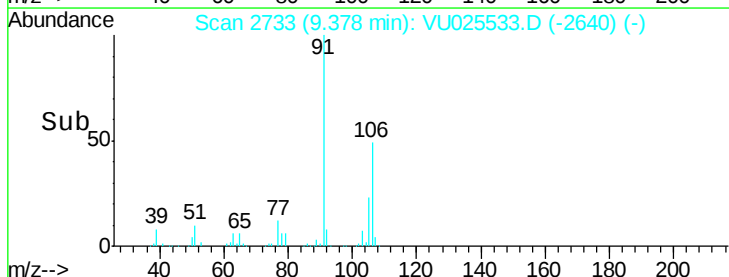
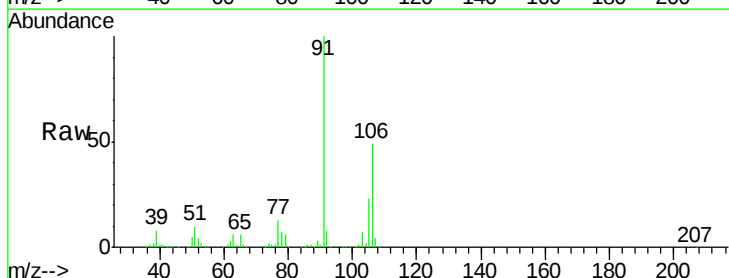
Acq: 20 Jul 2018 11:38

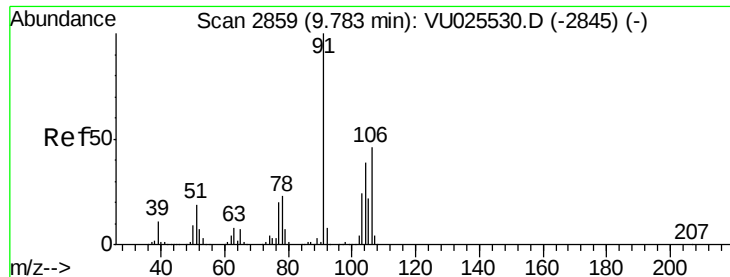
Tgt Ion: 106 Resp: 216000

Ion Ratio Lower Upper

106 100

91 203.2 141.7 263.3





#54

o-xylene

Concen: 49.411 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

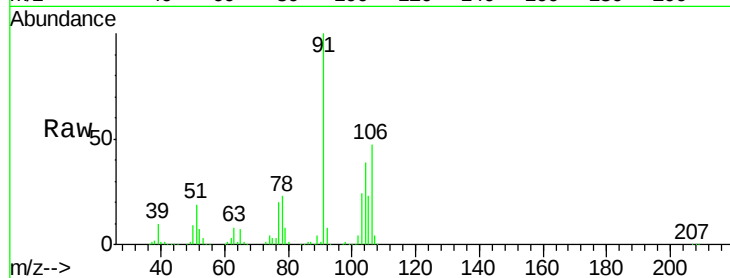
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 216413

Ion Ratio Lower Upper

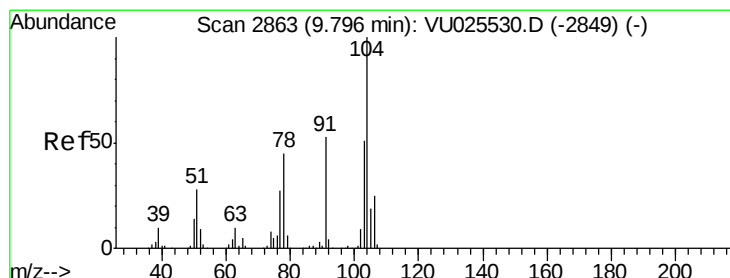
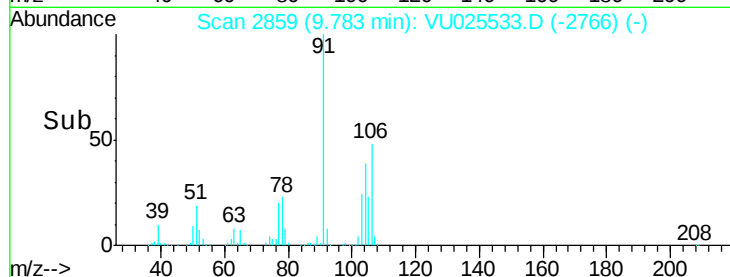
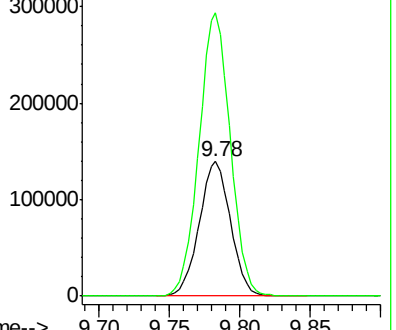
106 100

91 210.6 150.6 279.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 50.669 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VU025533.D

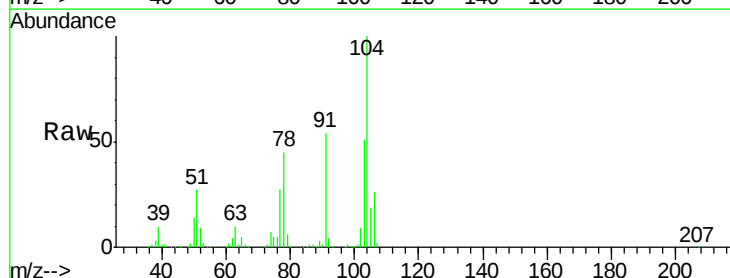
Acq: 20 Jul 2018 11:38

Tgt Ion:104 Resp: 361446

Ion Ratio Lower Upper

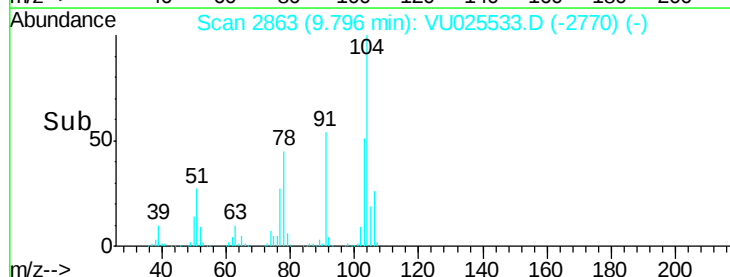
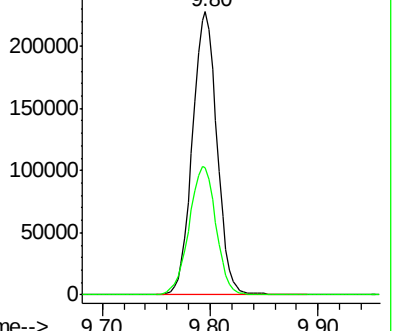
104 100

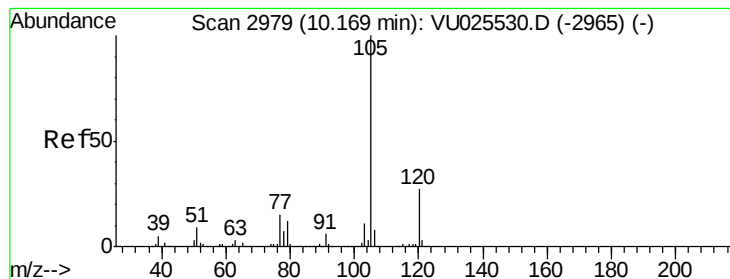
78 44.9 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 49.622 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

Instrument :

MSVOA_U

ClientSampleId :

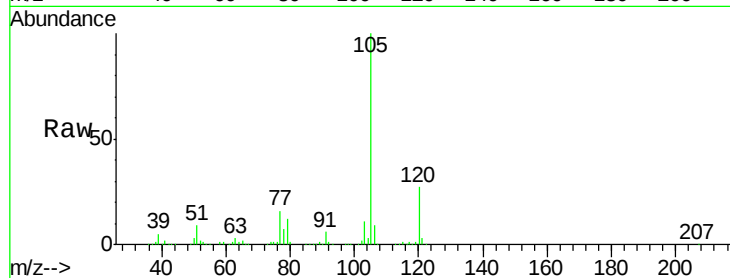
Tot Ion:105 Resp: 560885

Ion Ratio Lower Upper

105 100

120 27.0 21.7 32.5

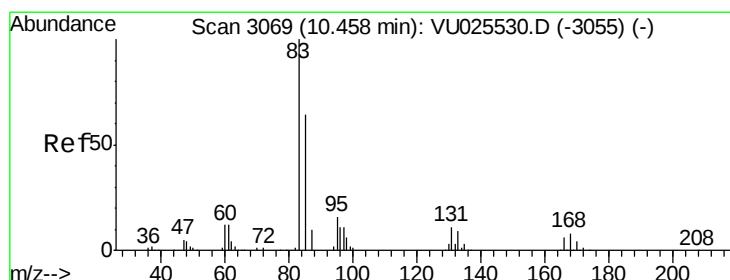
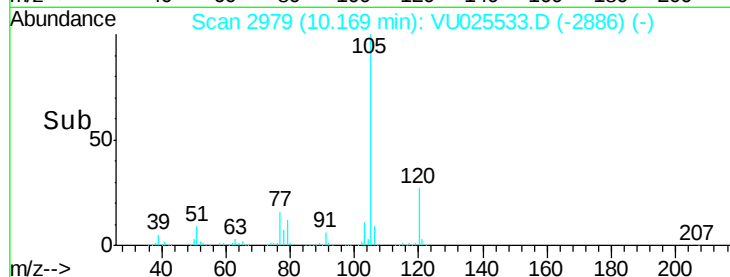
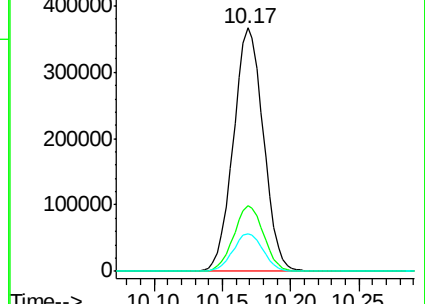
77 15.7 12.4 18.6



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: 48.323 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

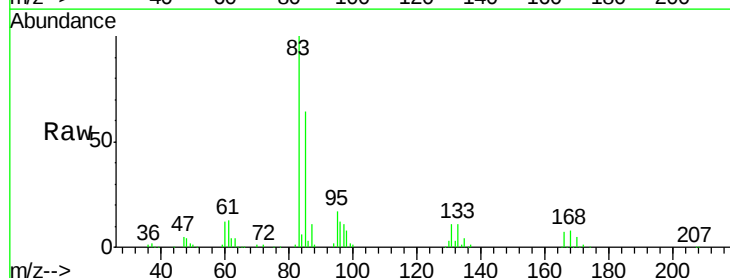
Tgt Ion: 83 Resp: 193429

Ion Ratio Lower Upper

83 100

85 64.3 45.1 83.7

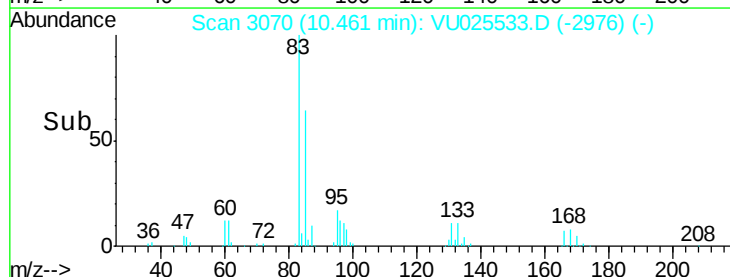
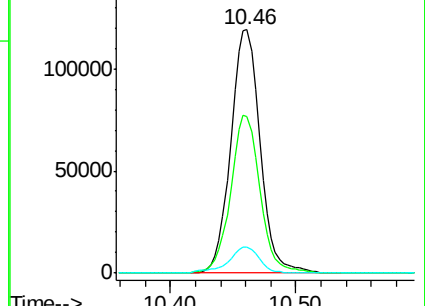
131 10.6 8.7 13.1

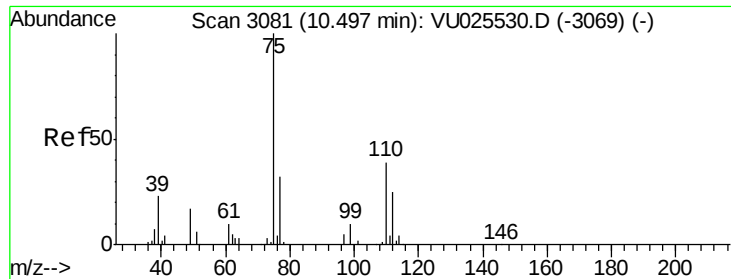


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

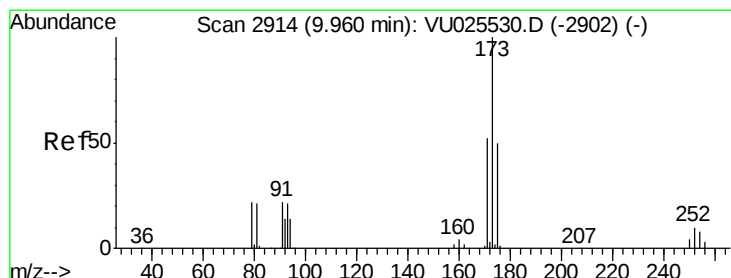
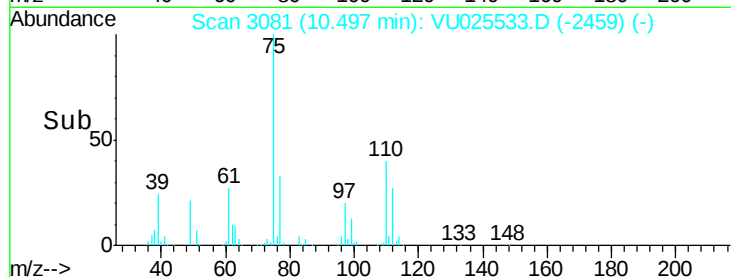
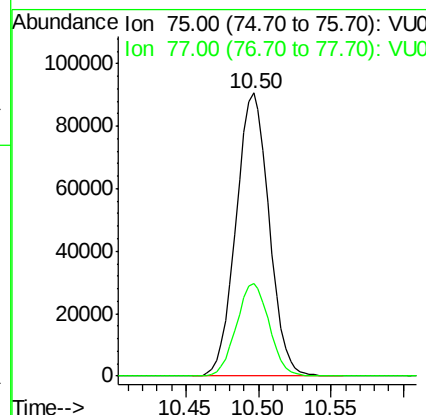
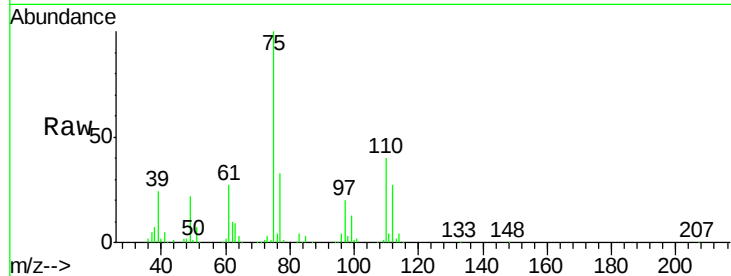




#59
 1,2,3-Trichloropropane
 Concen: 47.224 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. -0.00 min
 Lab File: VU025533.D
 Acq: 20 Jul 2018 11:38

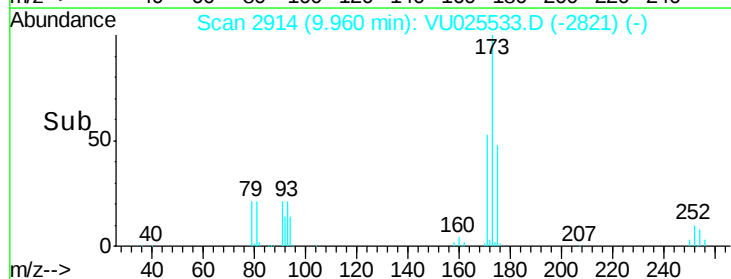
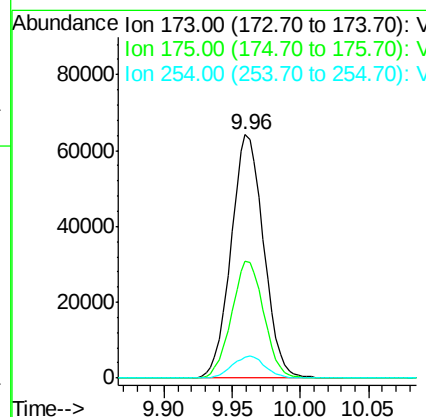
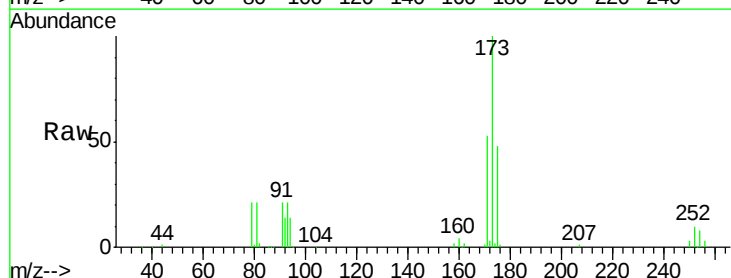
Instrument :
 MSVOA_U
 ClientSampleId :

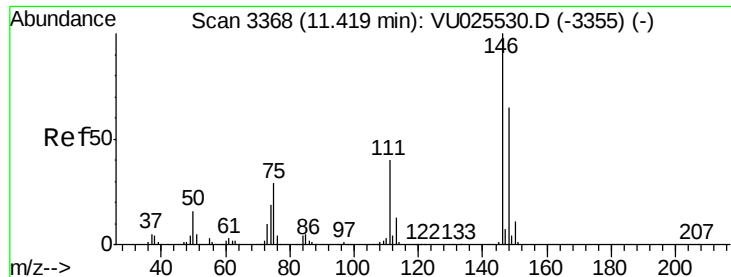
Tot Ion: 75 Resp: 143506
 Ion Ratio Lower Upper
 75 100
 77 32.6 25.8 38.8



#61
 Bromoform
 Concen: 48.275 ug/L
 RT: 9.96 min Scan# 2914
 Delta R.T. -0.00 min
 Lab File: VU025533.D
 Acq: 20 Jul 2018 11:38

Tgt Ion: 173 Resp: 106591
 Ion Ratio Lower Upper
 173 100
 175 47.6 39.8 59.8
 254 9.1 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 49.544 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

Instrument :

MSVOA_U

ClientSampleId :

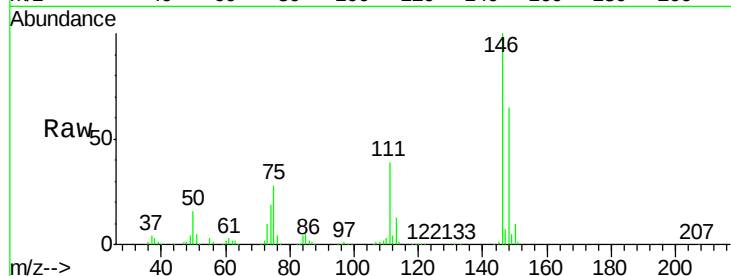
Tot Ion:146 Resp: 267518

Ion Ratio Lower Upper

146 100

111 39.4 27.7 51.5

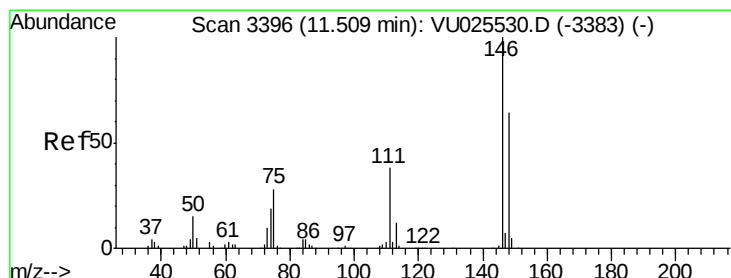
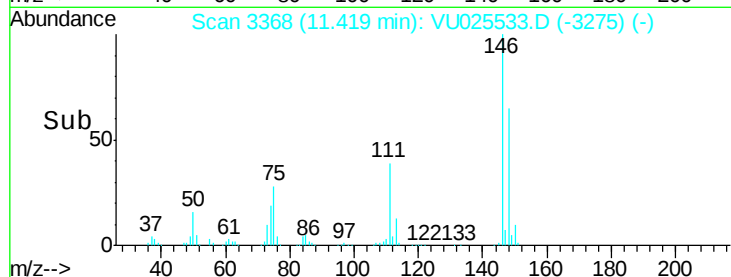
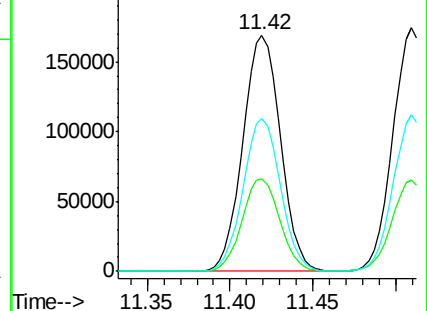
148 64.8 45.5 84.5



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: 48.710 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

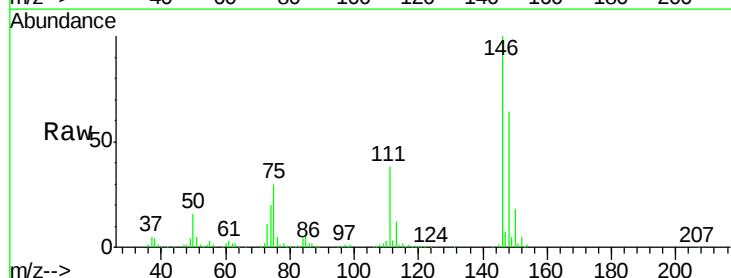
Tgt Ion:146 Resp: 268475

Ion Ratio Lower Upper

146 100

111 37.7 26.9 49.9

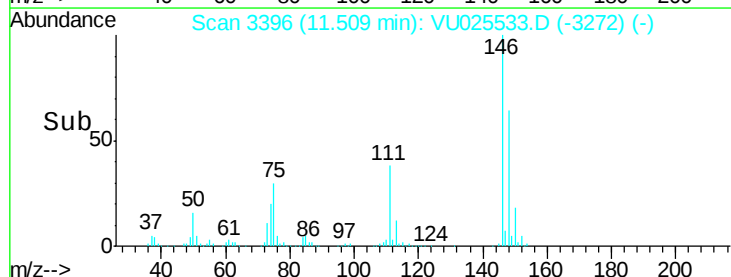
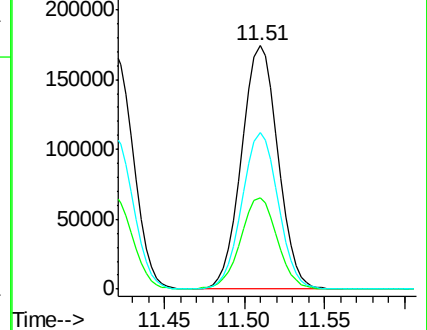
148 64.1 44.6 82.8

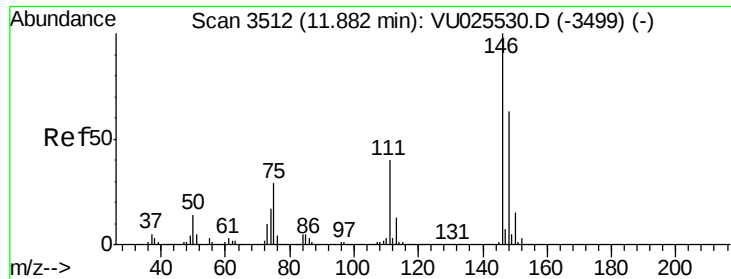


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

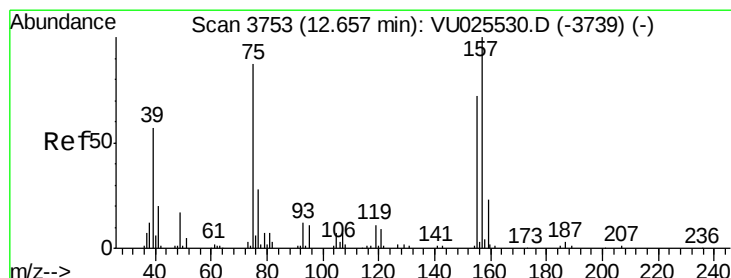
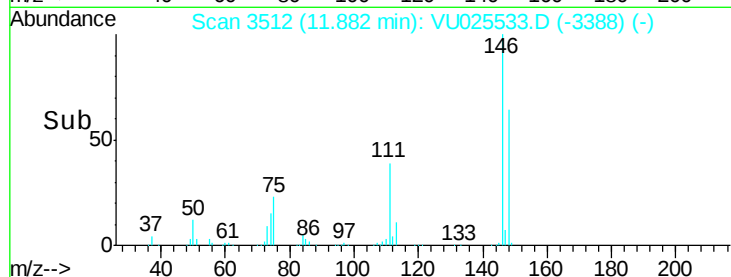
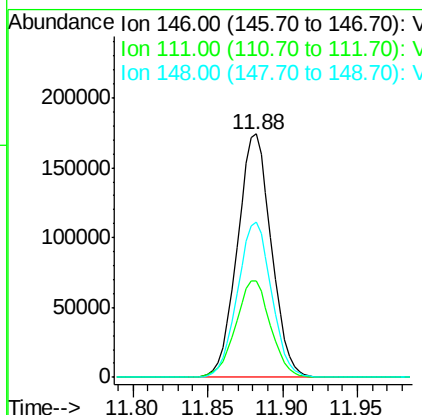
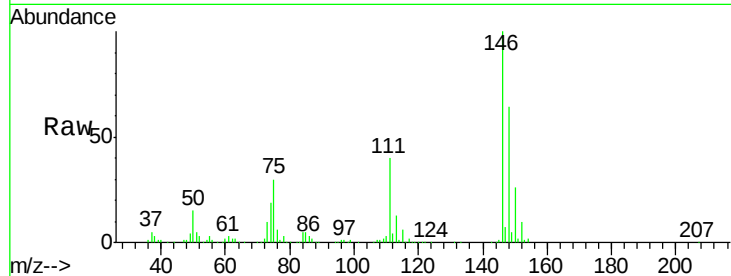




#65
 1,2-Dichlorobenzene
 Concen: 48.571 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU025533.D
 Acq: 20 Jul 2018 11:38

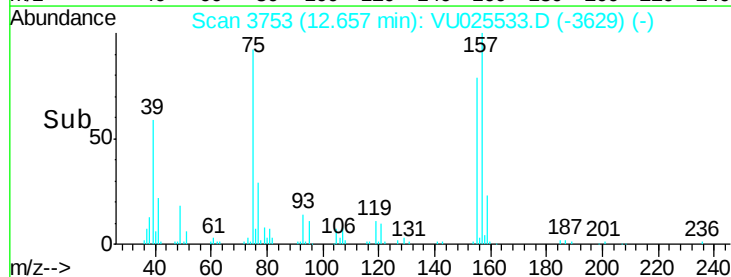
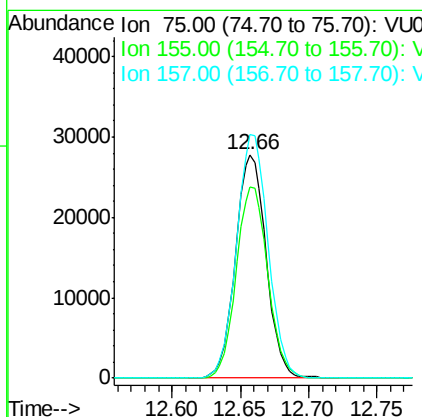
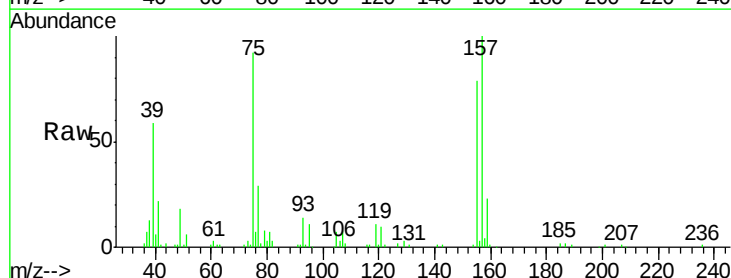
Instrument :
 MSVOA_U
 ClientSampleId :

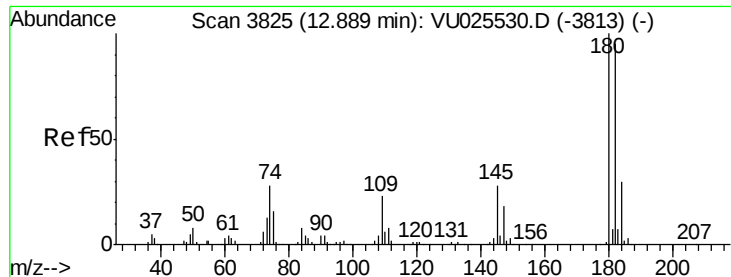
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	32.4	48.6
148	63.7	50.7	76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 48.714 ug/L
 RT: 12.66 min Scan# 3753
 Delta R.T. -0.00 min
 Lab File: VU025533.D
 Acq: 20 Jul 2018 11:38

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.7	66.3	99.5
157	109.0	91.5	137.3

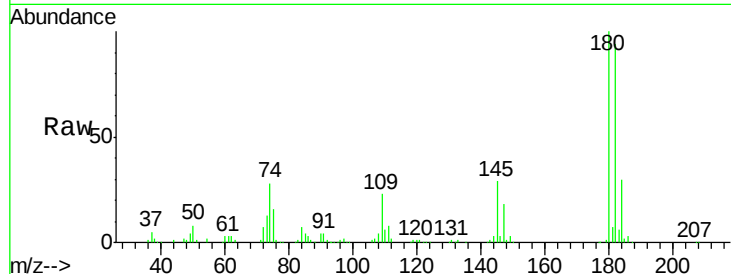




#67
 1,3,5-Trichlorobenzene
 Concen: 50.745 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. -0.00 min
 Lab File: VU025533.D
 Acq: 20 Jul 2018 11:38

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	77.3	115.9
184	29.8	24.6	36.8
145	28.7	23.0	34.6



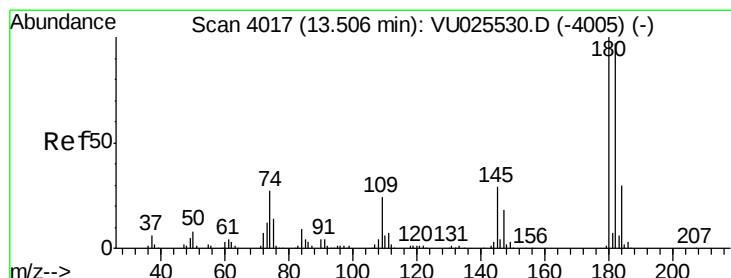
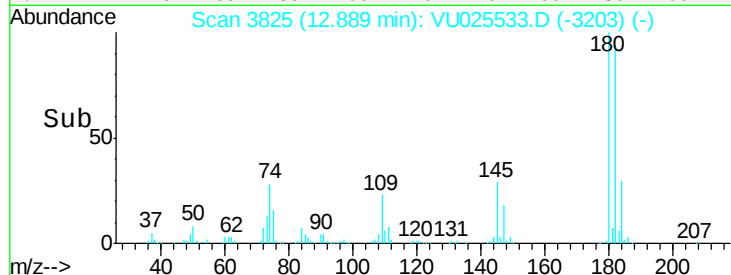
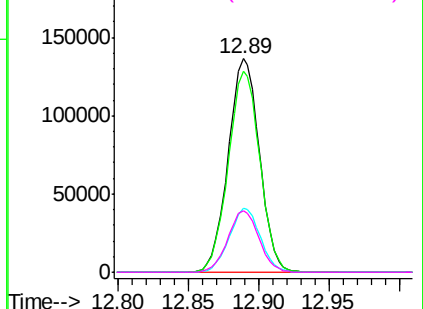
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

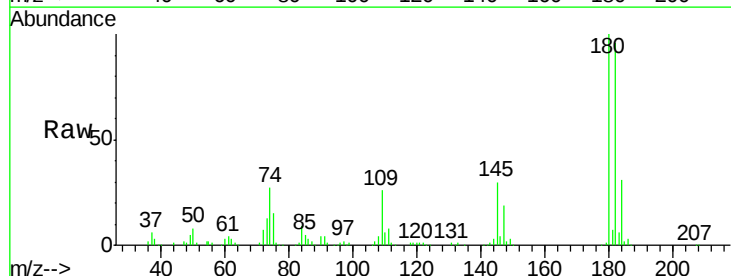
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 51.050 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU025533.D
 Acq: 20 Jul 2018 11:38

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	78.1	117.1
145	29.6	23.4	35.2

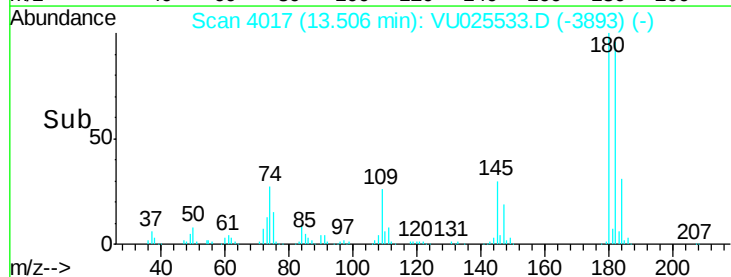
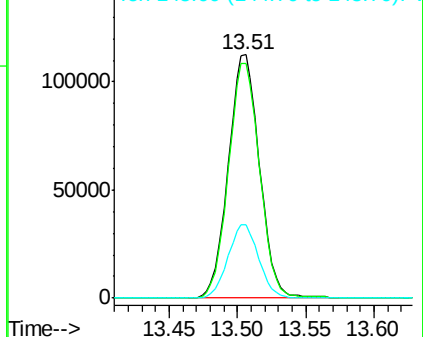


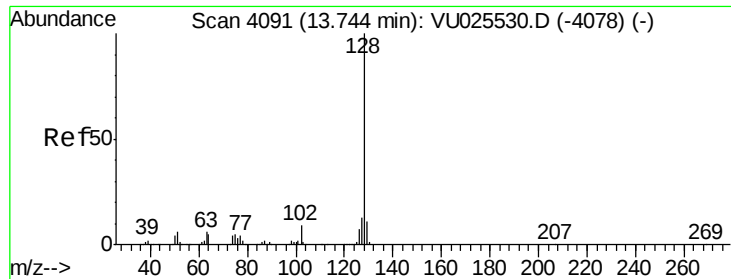
Abundance

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: 53.162 ug/L

RT: 13.74 min Scan# 4091

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

Instrument :

MSVOA_U

ClientSampleId :

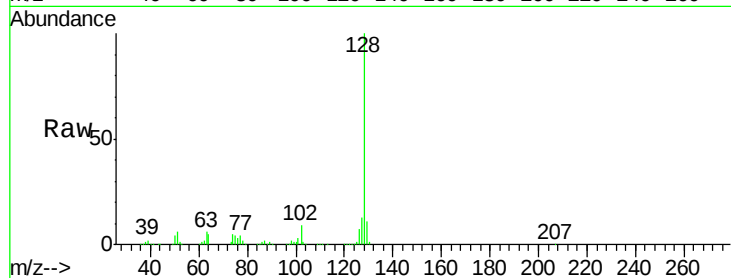
Tot Ion:128 Resp: 560016

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.4

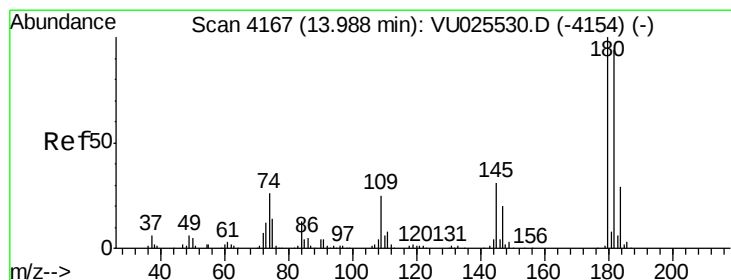
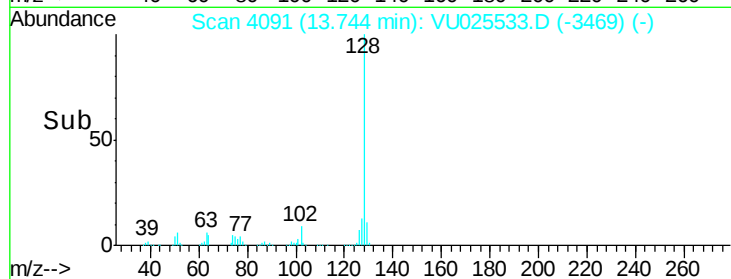
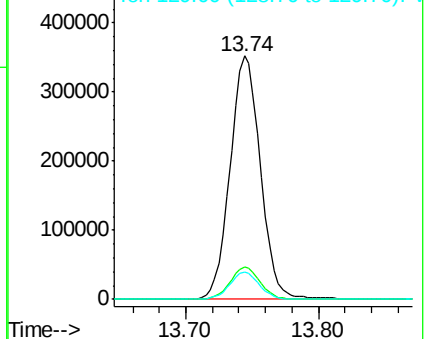
129 11.0 8.4 12.6



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: 51.583 ug/L

RT: 13.99 min Scan# 4167

Delta R.T. -0.00 min

Lab File: VU025533.D

Acq: 20 Jul 2018 11:38

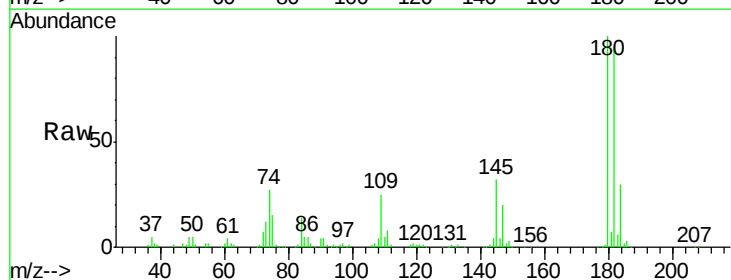
Tgt Ion:180 Resp: 191009

Ion Ratio Lower Upper

180 100

182 94.5 76.6 114.8

145 31.5 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

