

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071618\
 Data File : VU025415.D
 Acq On : 16 Jul 2018 10:24
 Operator : MD/SY
 Sample : VSTD01052
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01052

Quant Time: Jul 17 02:07:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jul 17 02:04:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	358717	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	335323	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	157783	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	19162	9.21	ug/L	0.00
7) Chloroethane-d5	1.68	69	16261	9.41	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	41315	9.07	ug/L	0.00
21) 2-Butanone-d5	4.18	46	38749	21.36	ug/L	0.00
24) Chloroform-d	4.65	84	44193	9.68	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	31279	9.77	ug/L	0.00
32) Benzene-d6	5.35	84	84145	9.29	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	27341	9.46	ug/L	0.00
41) Toluene-d8	7.57	98	81622	9.23	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	13843	9.56	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	27119	19.98	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.44	84	39843	9.61	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	33691	9.91	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	31314	9.756 ug/L	99
3) Chloromethane	1.33	50	35075	12.674 ug/L	96
5) Vinyl chloride	1.40	62	27270	9.939 ug/L	98
6) Bromomethane	1.63	94	7645	5.745 ug/L	93
8) Chloroethane	1.70	64	16678	10.079 ug/L	99
9) Trichlorofluoromethane	1.89	101	37712	9.514 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	23256	9.794 ug/L	95
12) 1,1-Dichloroethene	2.28	96	20747	9.615 ug/L	98
13) Acetone	2.32	43	43538	23.330 ug/L	99
14) Carbon disulfide	2.48	76	65316	9.953 ug/L	100
15) Methyl Acetate	2.62	43	31702	11.121 ug/L	97
16) Methylene chloride	2.70	84	27581	10.691 ug/L	96
17) trans-1,2-Dichloroethene	2.99	96	23445	9.948 ug/L	95
18) Methyl tert-butyl Ether	3.00	73	82753	10.087 ug/L	99
19) 1,1-Dichloroethane	3.45	63	46060	10.246 ug/L	99
20) cis-1,2-Dichloroethene	4.23	96	27318	10.026 ug/L	98
22) 2-Butanone	4.26	43	50664	22.838 ug/L	97
23) Bromochloromethane	4.55	128	13128	9.491 ug/L	99
25) Chloroform	4.68	83	48109	10.024 ug/L	98
27) 1,2-Dichloroethane	5.41	62	39676	9.949 ug/L	97
29) Cyclohexane	5.00	56	39323	9.265 ug/L	100
30) 1,1,1-Trichloroethane	4.92	97	43830	9.906 ug/L	99
31) Carbon tetrachloride	5.14	117	38029	9.845 ug/L	100
33) Benzene	5.39	78	97888	9.744 ug/L	100
34) Trichloroethene	6.19	95	25986	9.760 ug/L	97
35) Methylcyclohexane	6.42	83	41446	9.361 ug/L	100
37) 1,2-Dichloropropane	6.44	63	27337	10.154 ug/L	100
38) Bromodichloromethane	6.76	83	33260	9.372 ug/L	96
39) cis-1,3-Dichloropropene	7.27	75	39697	9.376 ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	81975	20.811 ug/L	98

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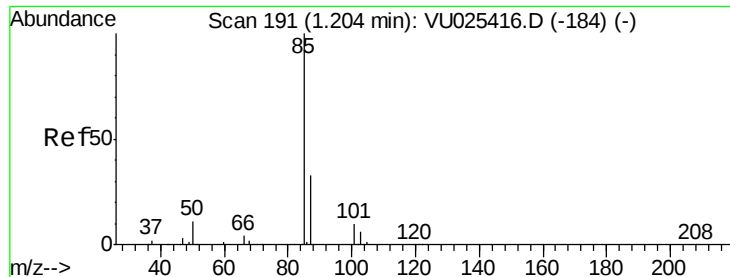
Instrument :
 MSVOA_U
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) Toluene	7.64	91	104840	9.623	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	36143	9.212	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	26379	10.287	ug/L	98
46) Tetrachloroethene	8.23	164	21595	9.597	ug/L	93
48) 2-Hexanone	8.36	43	72951	23.003	ug/L	98
49) Dibromochloromethane	8.48	129	25404	8.555	ug/L	95
50) 1,2-Dibromoethane	8.59	107	27949	9.805	ug/L	97
51) Chlorobenzene	9.12	112	69806	9.584	ug/L	96
52) Ethylbenzene	9.25	91	117106	9.572	ug/L	99
53) m,p-Xylene	9.38	106	43863	9.261	ug/L	95
54) o-xylene	9.78	106	45186	9.518	ug/L	99
55) Styrene	9.80	104	71793	9.229	ug/L	98
56) Isopropylbenzene	10.17	105	113803	9.141	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	44652	10.296	ug/L	94
59) 1,2,3-Trichloropropane	10.50	75	36837	10.428	ug/L	96
61) Bromoform	9.96	173	17460	8.705	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	51982	9.926	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	52343	9.956	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	56436	10.235	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	9507	10.283	ug/L	96
67) 1,3,5-Trichlorobenzene	12.89	180	38475	9.894	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	32164	9.867	ug/L	99
69) Naphthalene	13.75	128	115083	10.455	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	34856	9.896	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 9.756 ug/L

RT: 1.20 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Instrument :

MSVOA_U

ClientSampleId :

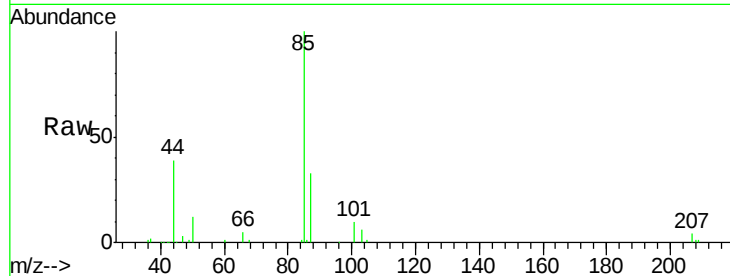
VSTD01052

Tgt Ion: 85 Resp: 31314

Ion Ratio Lower Upper

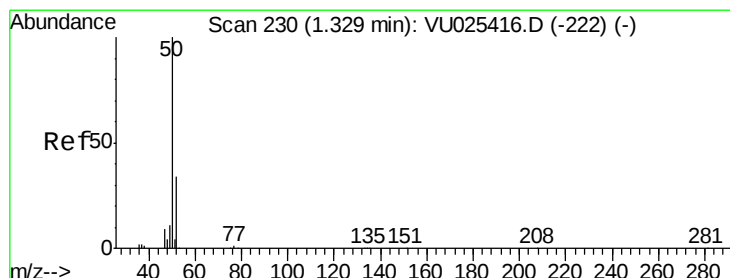
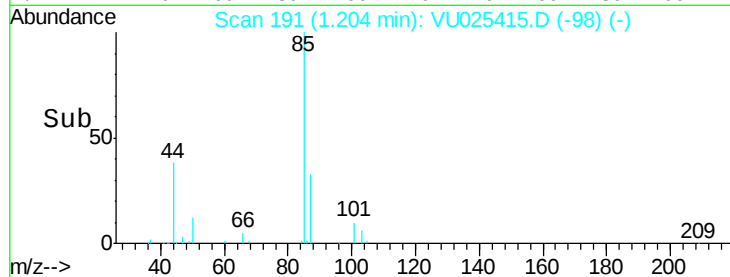
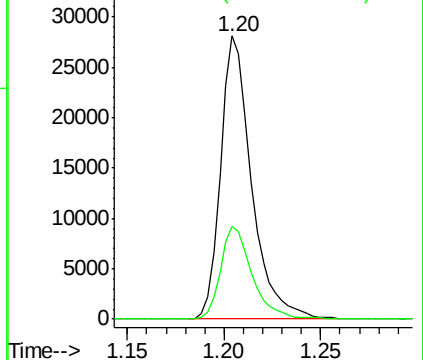
85 100

87 33.3 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 12.674 ug/L

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025415.D

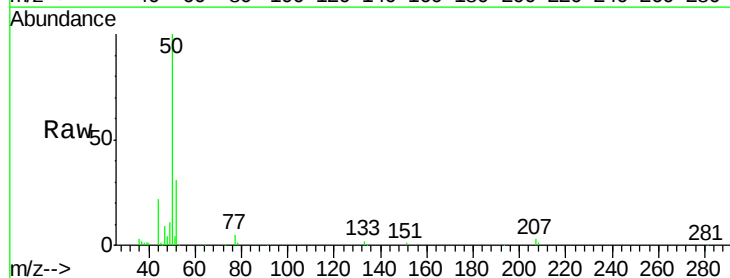
Acq: 16 Jul 2018 10:24

Tgt Ion: 50 Resp: 35075

Ion Ratio Lower Upper

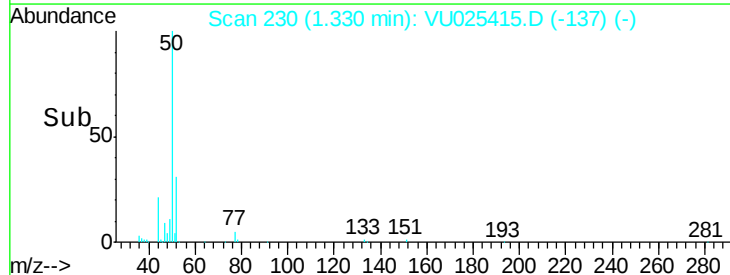
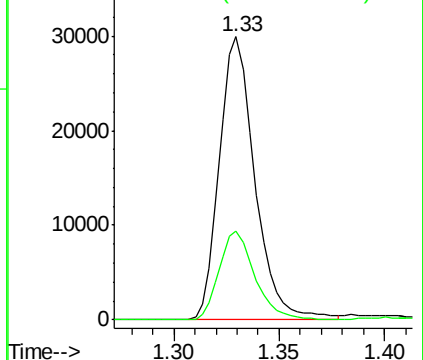
50 100

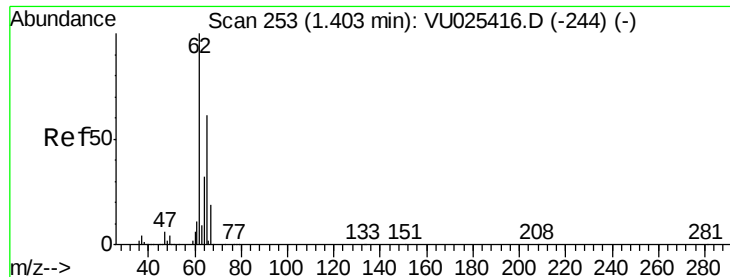
52 31.4 23.5 43.7



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 9.939 ug/L

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Instrument :

MSVOA_U

ClientSampleId :

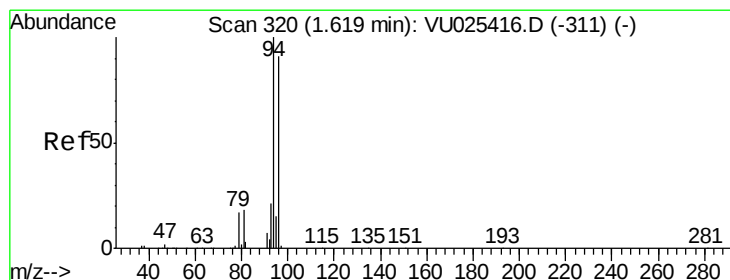
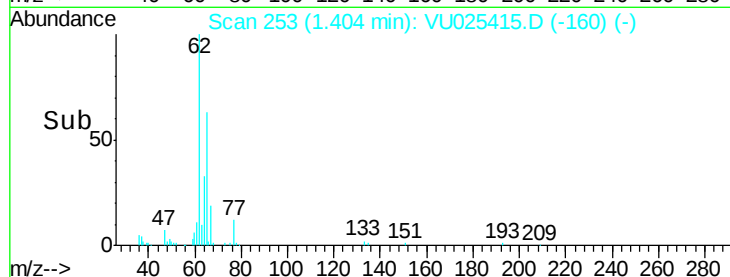
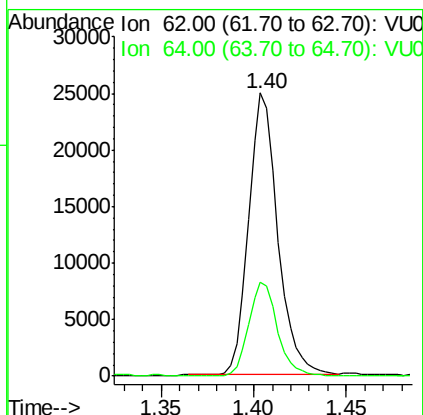
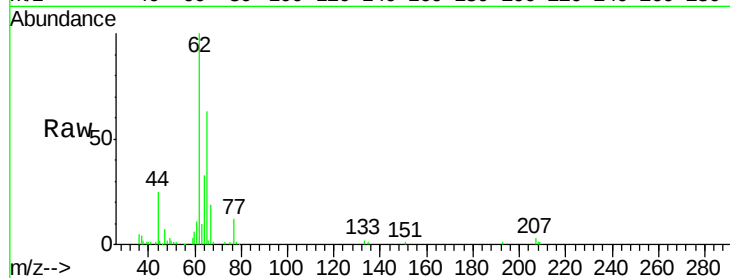
VSTD01052

Tgt Ion: 62 Resp: 27270

Ion Ratio Lower Upper

62 100

64 33.2 22.6 42.0



#6

Bromomethane

Concen: 5.745 ug/L

RT: 1.63 min Scan# 322

Delta R.T. 0.01 min

Lab File: VU025415.D

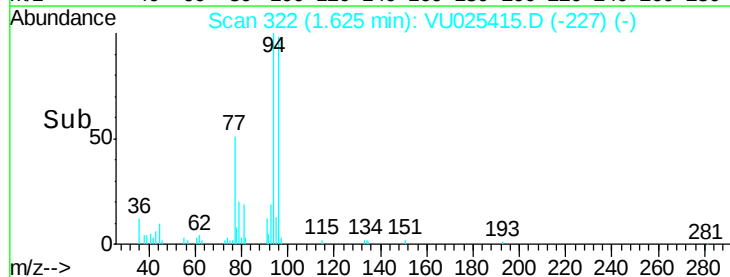
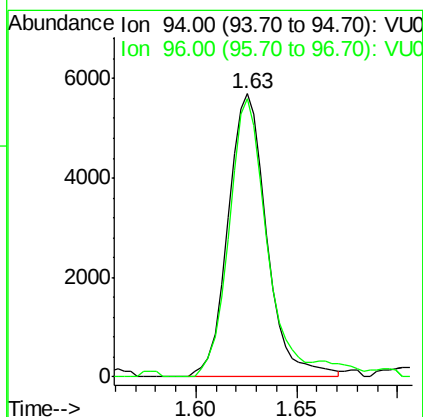
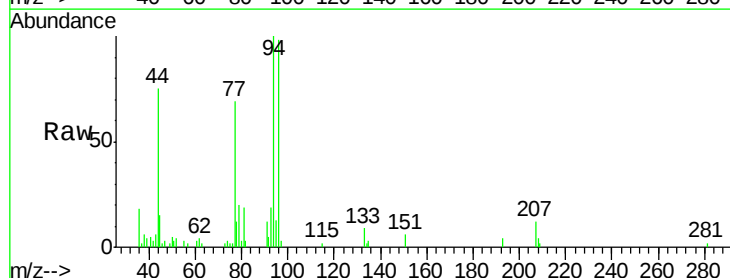
Acq: 16 Jul 2018 10:24

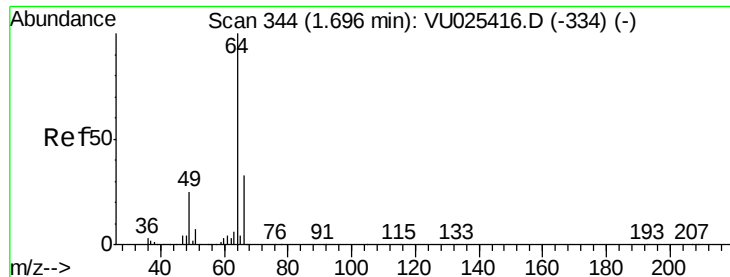
Tgt Ion: 94 Resp: 7645

Ion Ratio Lower Upper

94 100

96 98.4 64.2 119.2





#8

Chloroethane

Concen: 10.079 ug/L

RT: 1.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Instrument :

MSVOA_U

ClientSampleId :

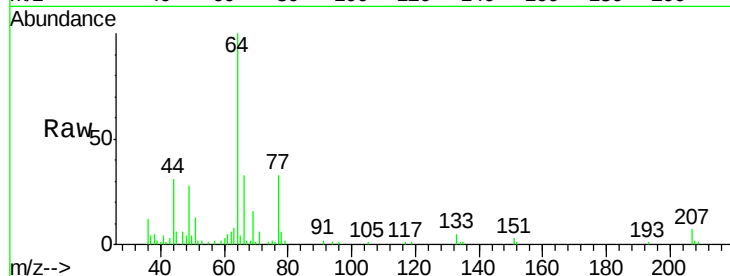
VSTD01052

Tgt Ion: 64 Resp: 16678

Ion Ratio Lower Upper

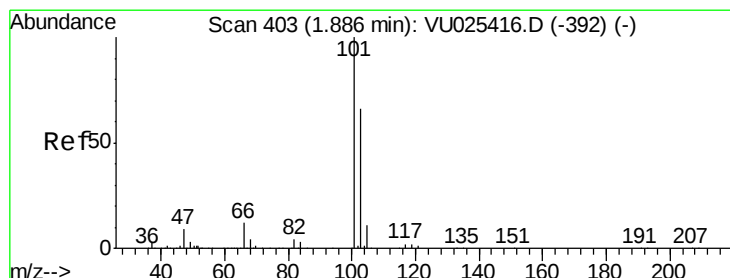
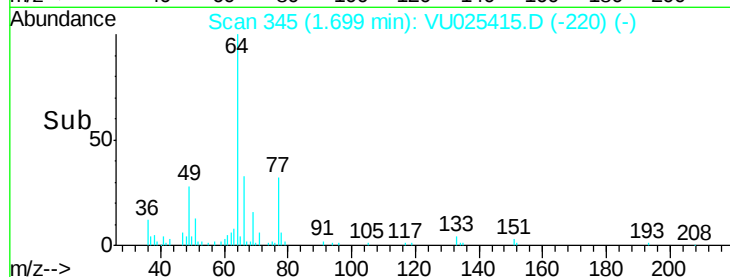
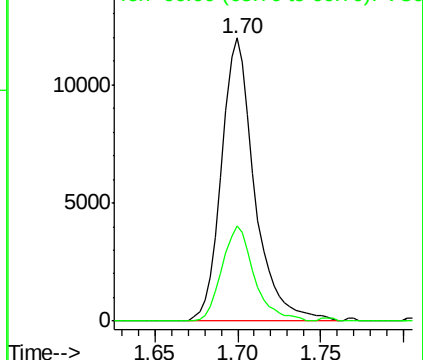
64 100

66 33.5 23.2 43.0



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0



#9

Trichlorofluoromethane

Concen: 9.514 ug/L

RT: 1.89 min Scan# 404

Delta R.T. 0.00 min

Lab File: VU025415.D

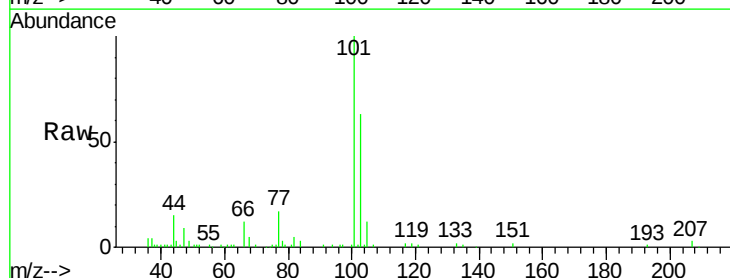
Acq: 16 Jul 2018 10:24

Tgt Ion: 101 Resp: 37712

Ion Ratio Lower Upper

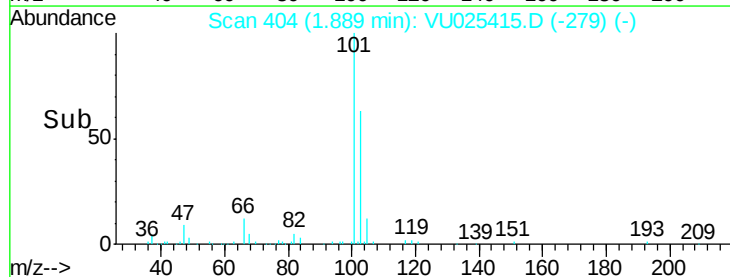
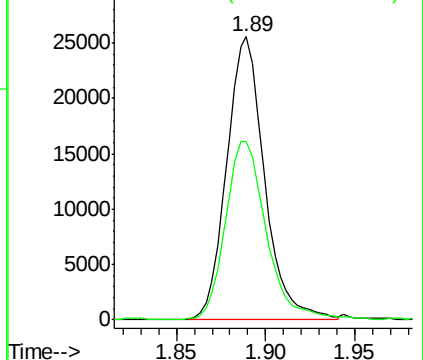
101 100

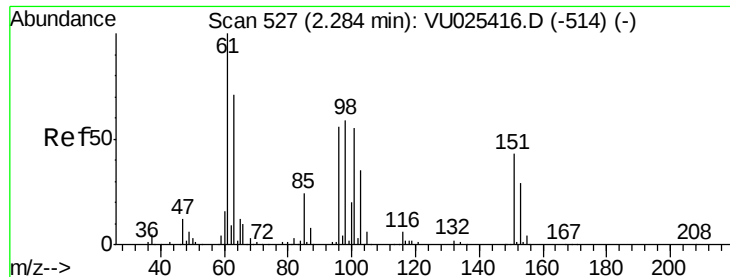
103 68.2 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 9.794 ug/L

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD01052

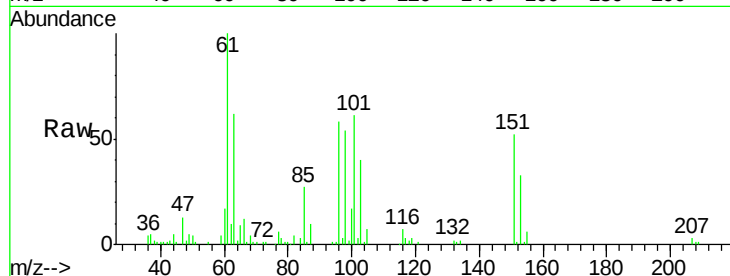
Tgt Ion:101 Resp: 23256

Ion Ratio Lower Upper

101 100

85 43.2 34.7 52.1

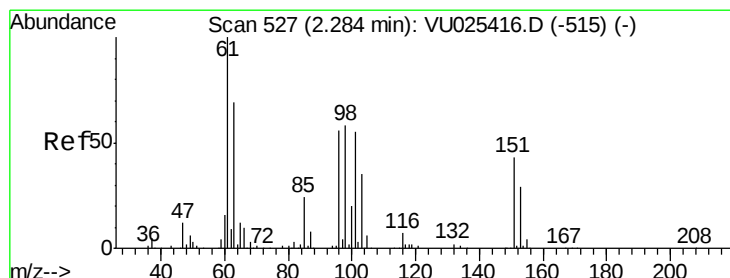
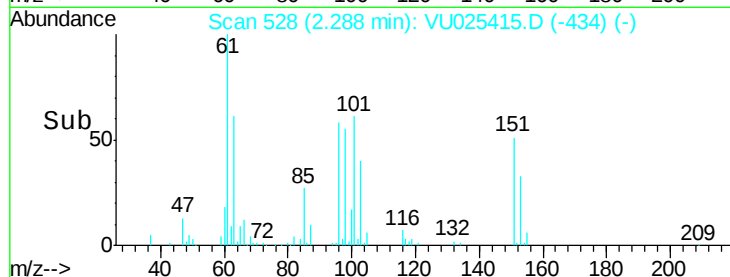
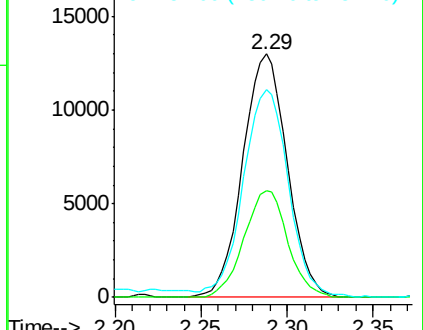
151 87.1 64.4 96.6



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: 9.615 ug/L

RT: 2.28 min Scan# 527

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

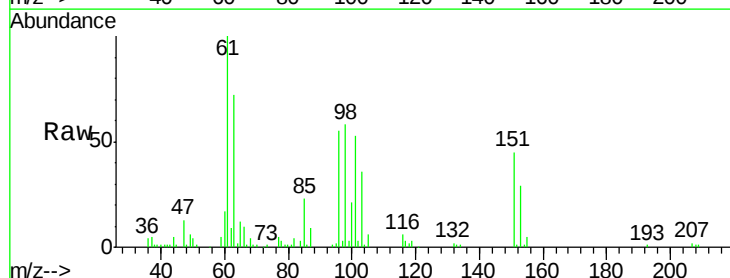
Tgt Ion: 96 Resp: 20747

Ion Ratio Lower Upper

96 100

61 182.6 125.9 233.9

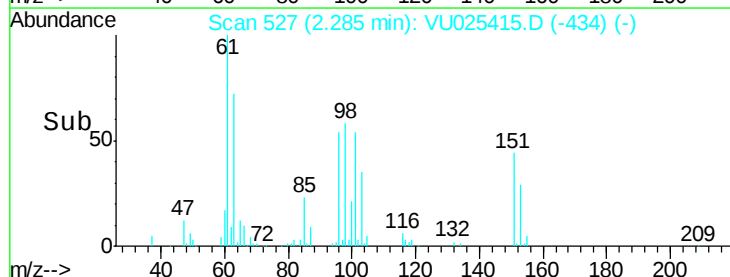
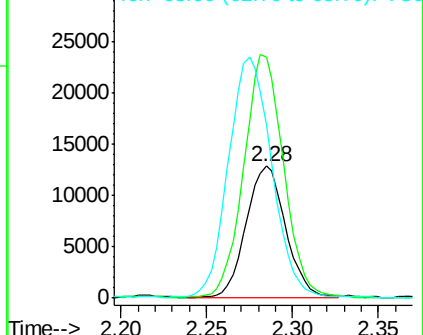
63 131.7 90.4 167.8

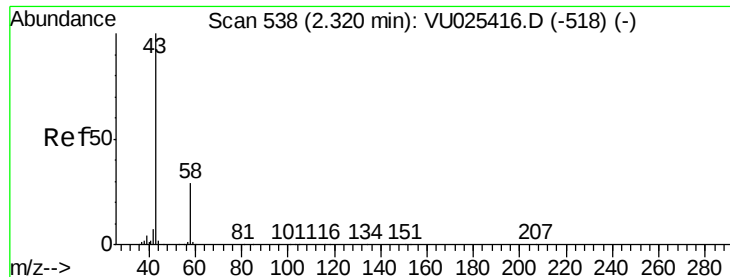


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 23.330 ug/L

RT: 2.32 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Instrument :

MSVOA_U

ClientSampleId :

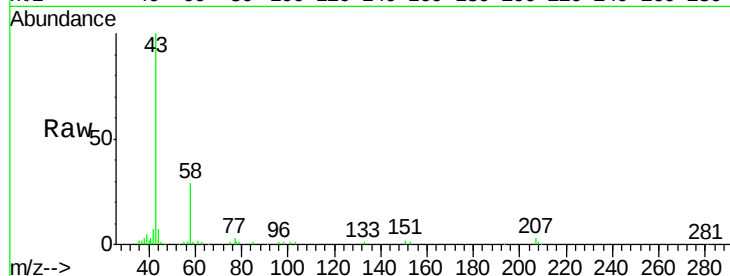
VSTD01052

Tgt Ion: 43 Resp: 43538

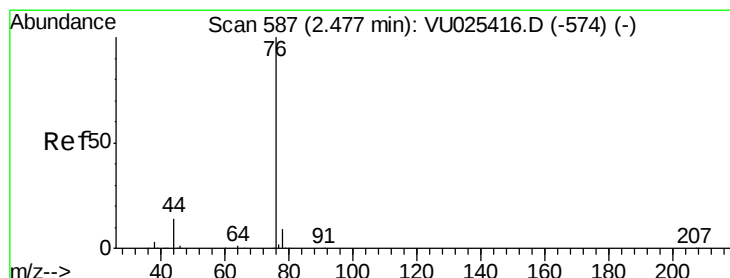
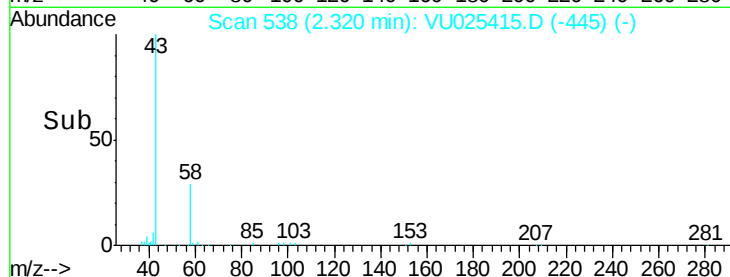
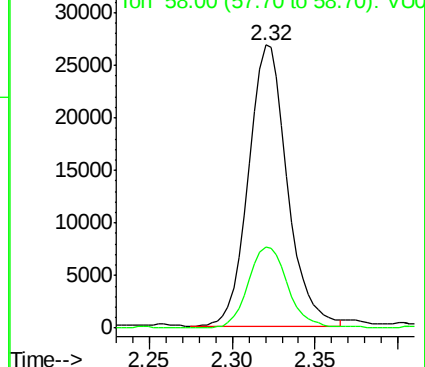
Ion Ratio Lower Upper

43 100

58 29.6 0.0 58.4



Abundance Ion 43.00 (42.70 to 43.70): VU025416.D (-518) (-)



#14

Carbon disulfide

Concen: 9.953 ug/L

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU025415.D

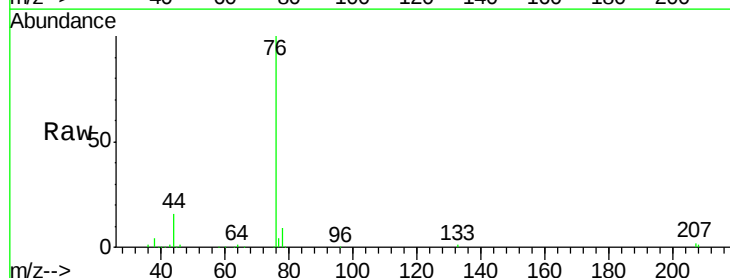
Acq: 16 Jul 2018 10:24

Tgt Ion: 76 Resp: 65316

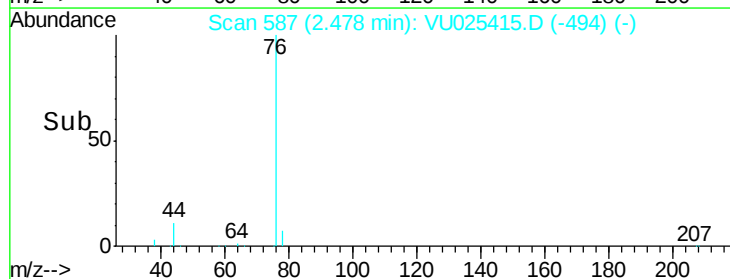
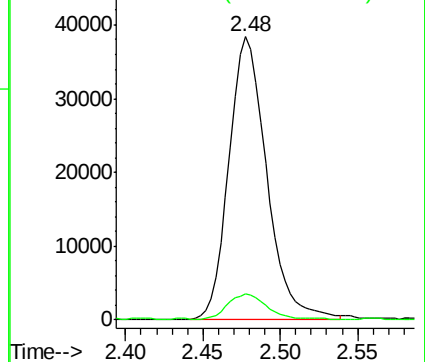
Ion Ratio Lower Upper

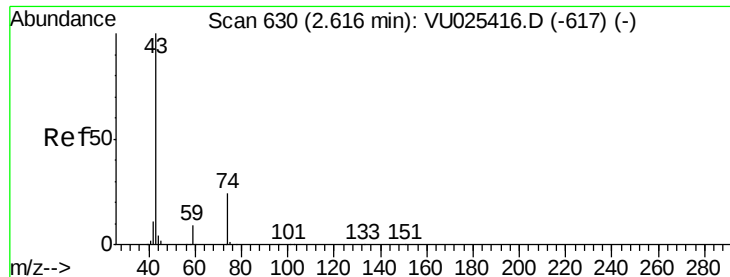
76 100

78 9.1 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU025416.D (-574) (-)

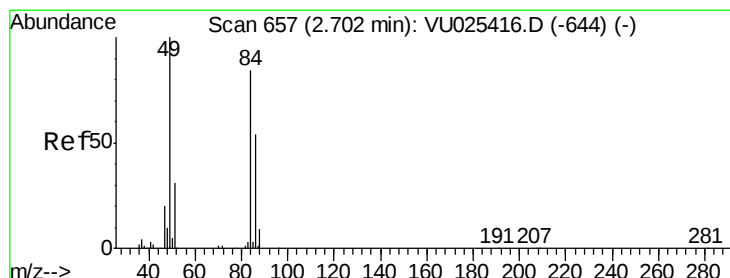
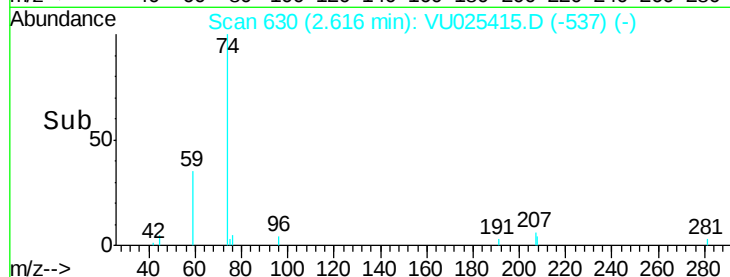
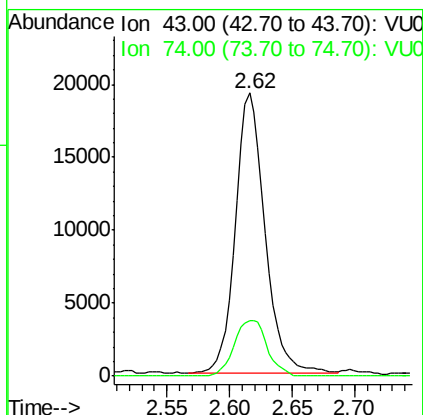
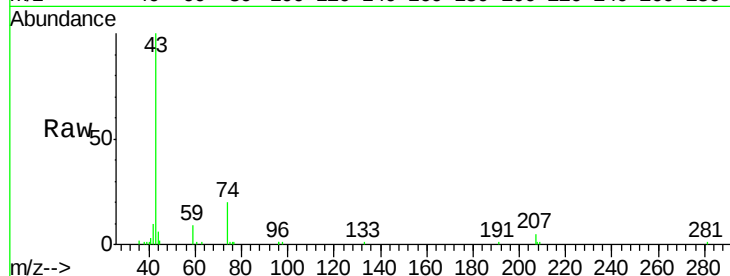




#15
Methyl Acetate
Concen: 11.121 ug/L
RT: 2.62 min Scan# 630
Delta R.T. 0.00 min
Lab File: VU025415.D
Acq: 16 Jul 2018 10:24

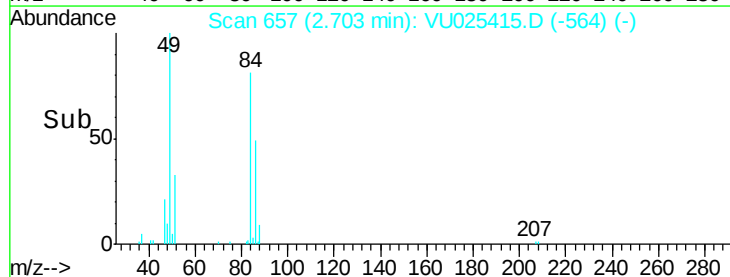
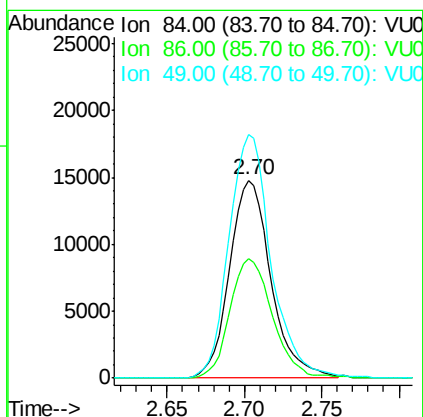
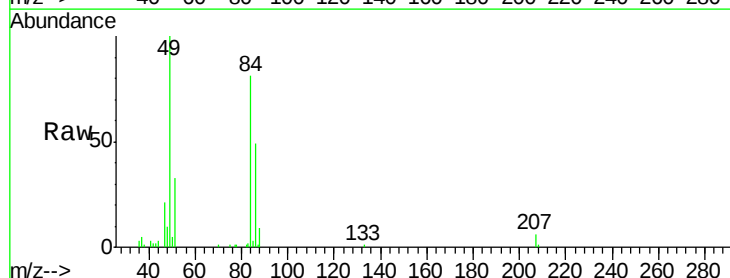
Instrument :
MSVOA_U
ClientSampleId :
VSTD01052

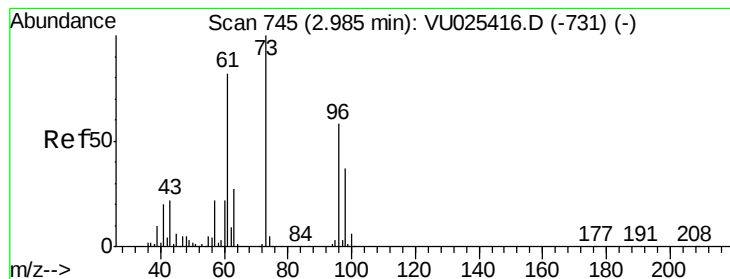
Tgt Ion: 43 Resp: 31702
Ion Ratio Lower Upper
43 100
74 21.9 18.8 28.2



#16
Methylene chloride
Concen: 10.691 ug/L
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU025415.D
Acq: 16 Jul 2018 10:24

Tgt Ion: 84 Resp: 27581
Ion Ratio Lower Upper
84 100
86 60.5 45.2 84.0
49 123.1 83.6 155.2





#17

trans-1,2-Dichloroethene

Concen: 9.948 ug/L

RT: 2.99 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD01052

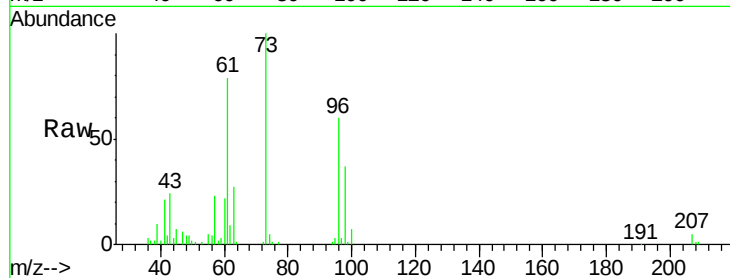
Tgt Ion: 96 Resp: 23445

Ion Ratio Lower Upper

96 100

61 132.3 98.2 182.4

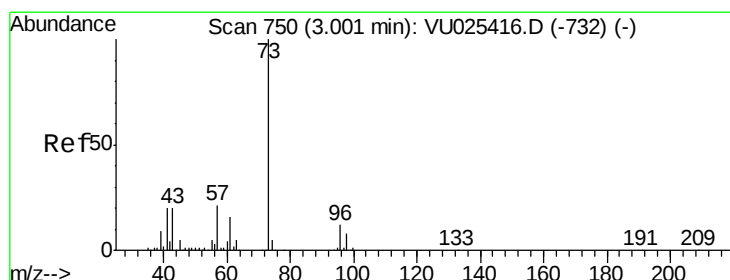
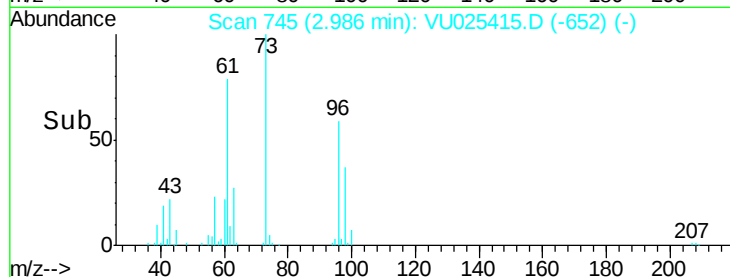
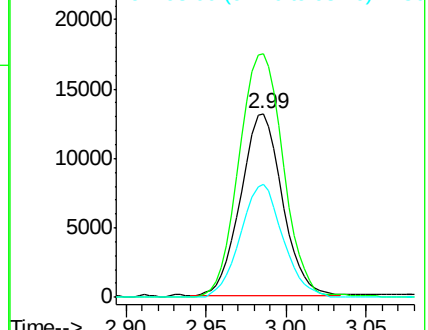
98 61.4 44.4 82.5



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: 10.087 ug/L

RT: 3.00 min Scan# 749

Delta R.T. -0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

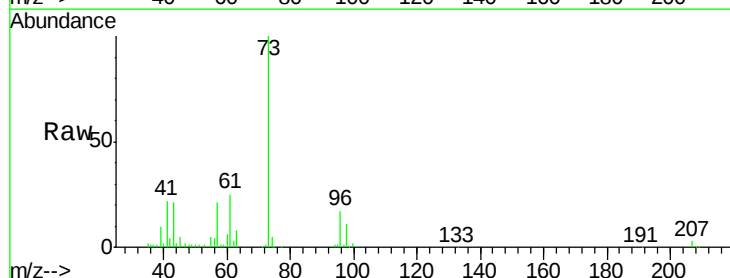
Tgt Ion: 73 Resp: 82753

Ion Ratio Lower Upper

73 100

43 20.7 16.7 25.1

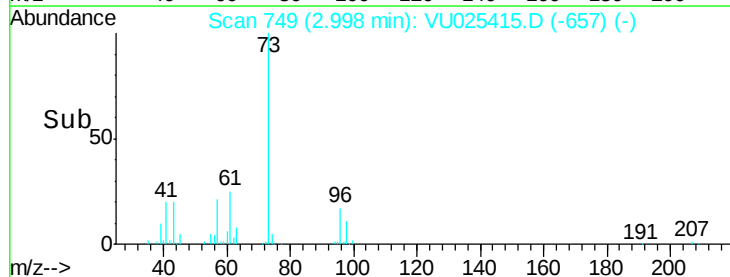
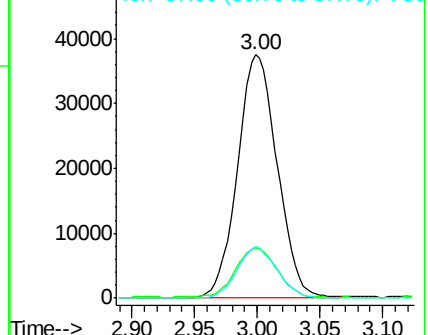
57 21.2 17.3 25.9

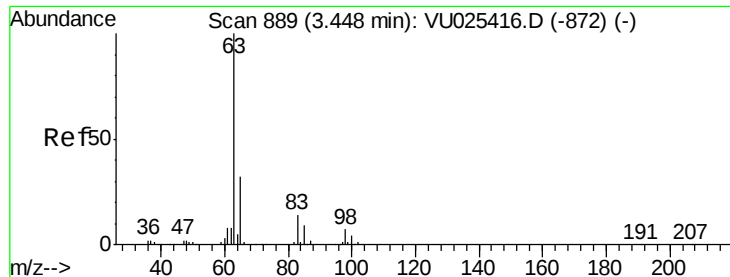


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

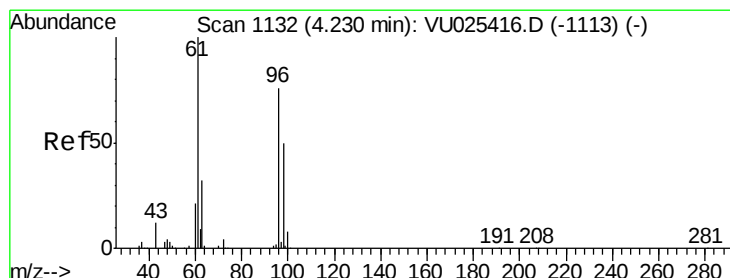
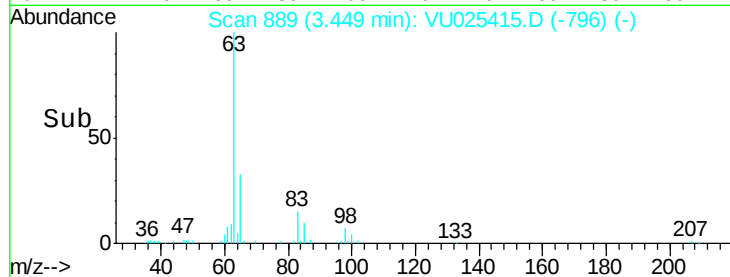
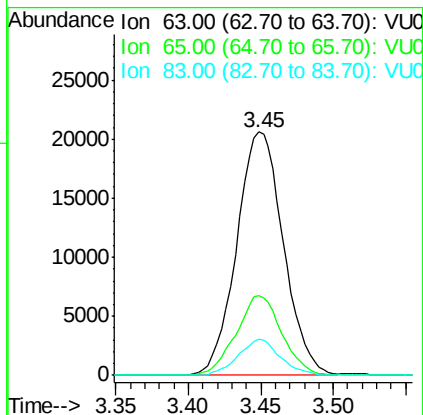
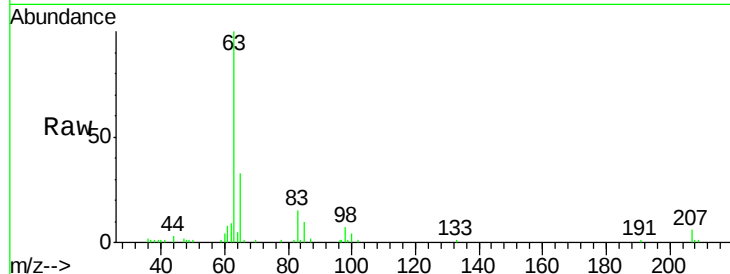




#19
 1,1-Dichloroethane
 Concen: 10.246 ug/L
 RT: 3.45 min Scan# 889
 Delta R.T. 0.00 min
 Lab File: VU025415.D
 Acq: 16 Jul 2018 10:24

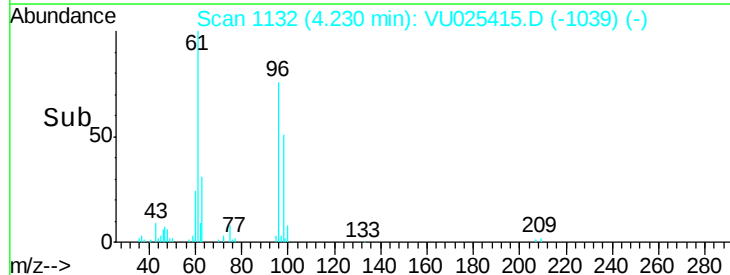
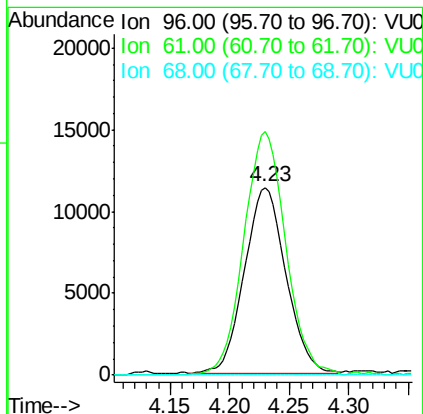
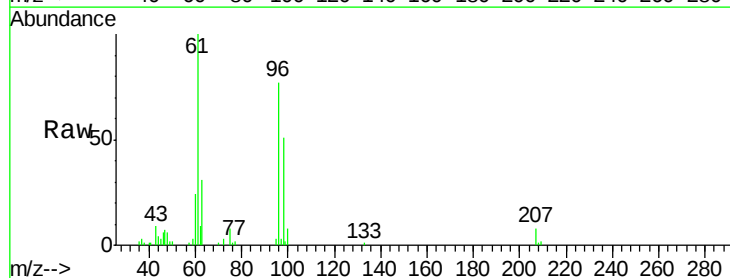
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD01052

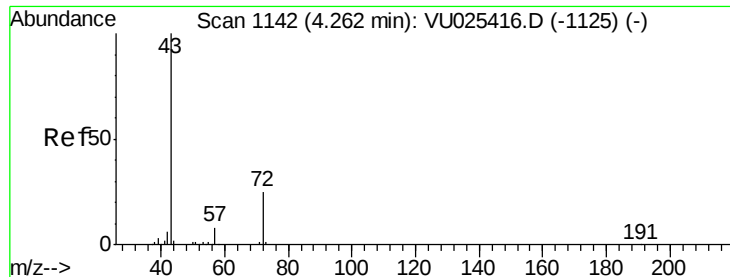
Tgt Ion: 63 Resp: 46060
 Ion Ratio Lower Upper
 63 100
 65 32.6 22.6 42.0
 83 14.7 9.6 17.8



#20
 cis-1,2-Dichloroethene
 Concen: 10.026 ug/L
 RT: 4.23 min Scan# 1132
 Delta R.T. 0.00 min
 Lab File: VU025415.D
 Acq: 16 Jul 2018 10:24

Tgt Ion: 96 Resp: 27318
 Ion Ratio Lower Upper
 96 100
 61 129.6 92.0 170.9
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 22.838 ug/L

RT: 4.26 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Instrument :

MSVOA_U

ClientSampleId :

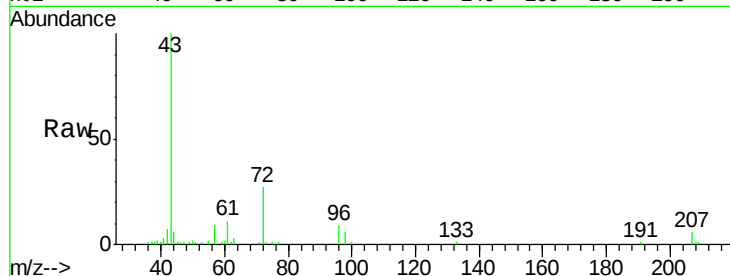
VSTD01052

Tgt Ion: 43 Resp: 50664

Ion Ratio Lower Upper

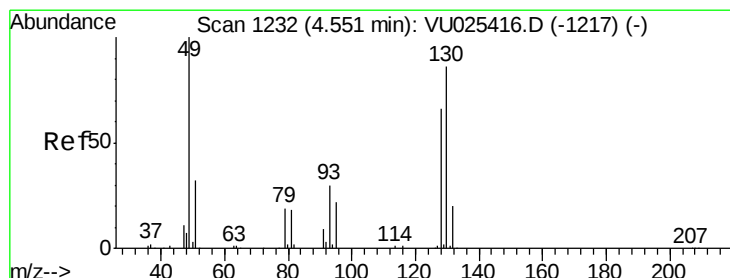
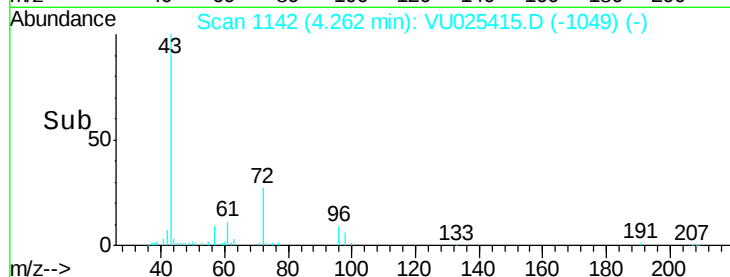
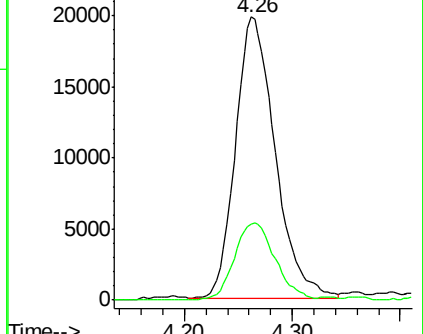
43 100

72 28.1 13.3 39.9



Abundance Ion 43.00 (42.70 to 43.70): VU025415.D (-1149) (-)

Ion 72.00 (71.70 to 72.70): VU025415.D (-1149) (-)



#23

Bromochloromethane

Concen: 9.491 ug/L

RT: 4.55 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Tgt Ion: 128 Resp: 13128

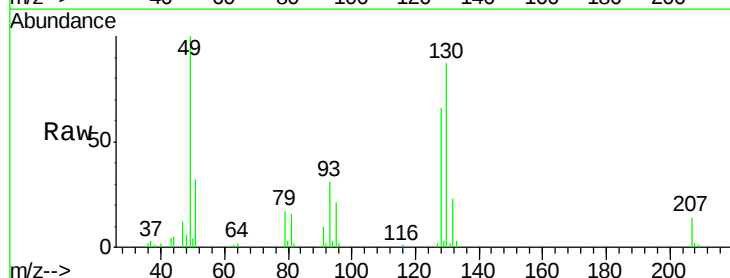
Ion Ratio Lower Upper

128 100

49 152.0 106.5 197.7

130 131.8 91.4 169.8

51 49.3 38.6 58.0

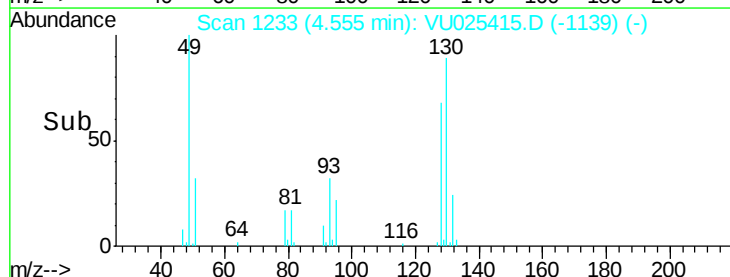
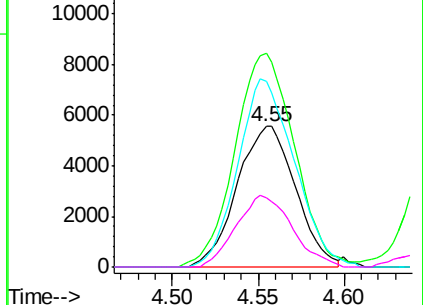


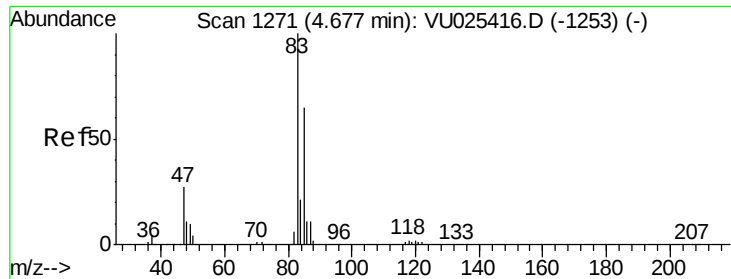
Abundance Ion 128.00 (127.70 to 128.70): VU025415.D (-1139) (-)

Ion 49.00 (48.70 to 49.70): VU025415.D (-1139) (-)

Ion 130.00 (129.70 to 130.70): VU025415.D (-1139) (-)

Ion 51.00 (50.70 to 51.70): VU025415.D (-1139) (-)





#25

Chloroform

Concen: 10.024 ug/L

RT: 4.68 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Instrument :

MSVOA_U

ClientSampleId :

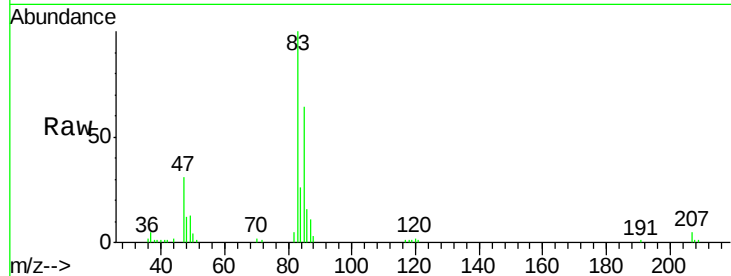
VSTD01052

Tgt Ion: 83 Resp: 48109

Ion Ratio Lower Upper

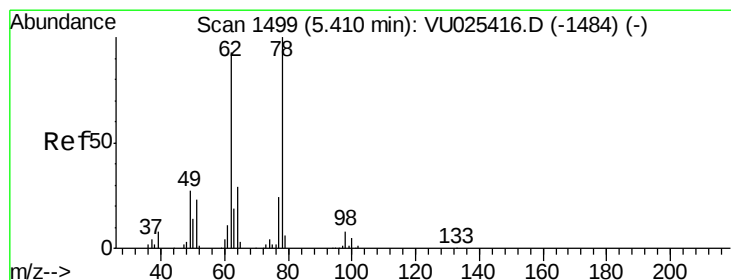
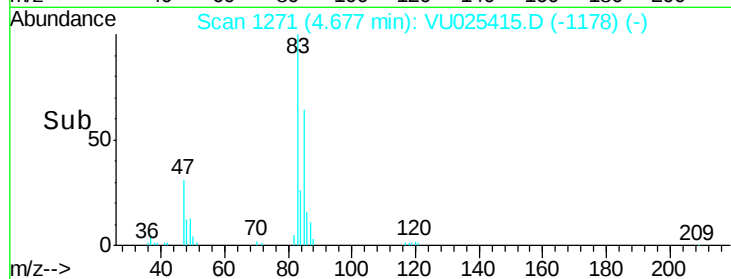
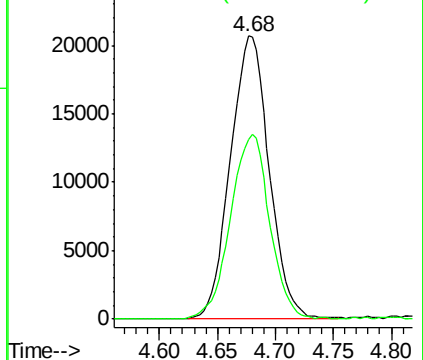
83 100

85 63.6 45.6 84.6



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#27

1,2-Dichloroethane

Concen: 9.949 ug/L

RT: 5.41 min Scan# 1499

Delta R.T. 0.00 min

Lab File: VU025415.D

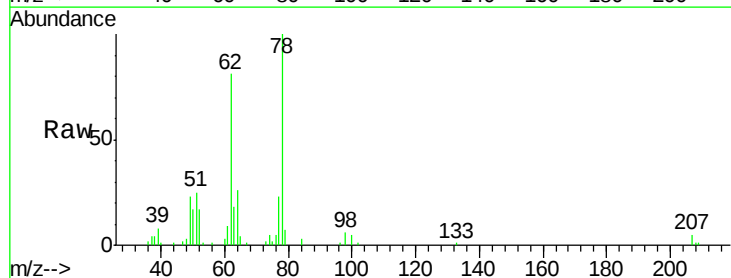
Acq: 16 Jul 2018 10:24

Tgt Ion: 62 Resp: 39676

Ion Ratio Lower Upper

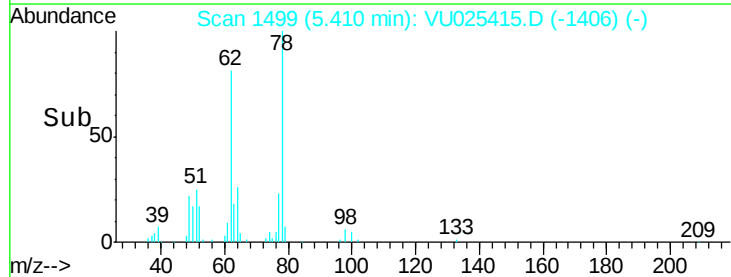
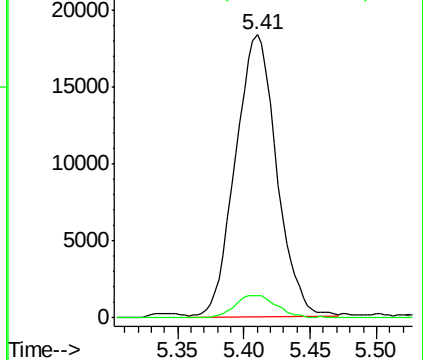
62 100

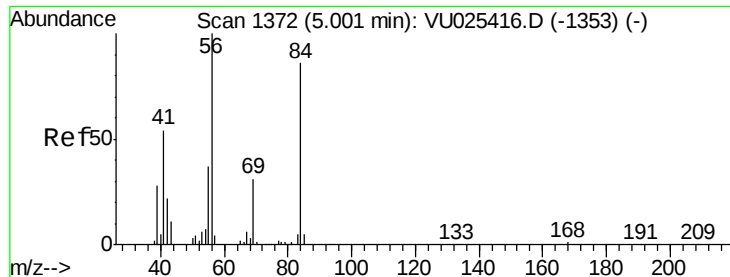
98 7.7 7.0 10.4



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

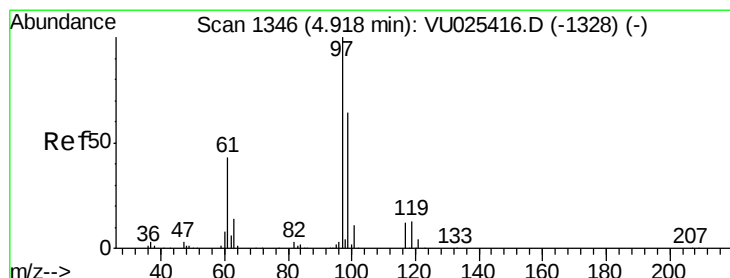
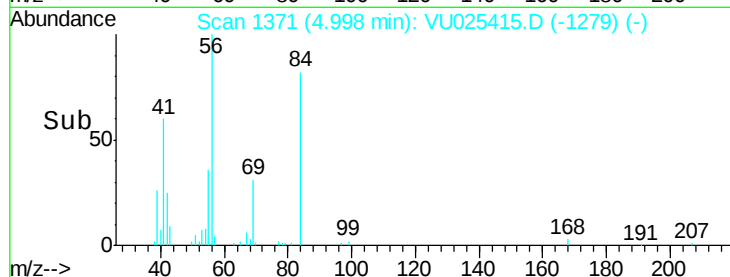
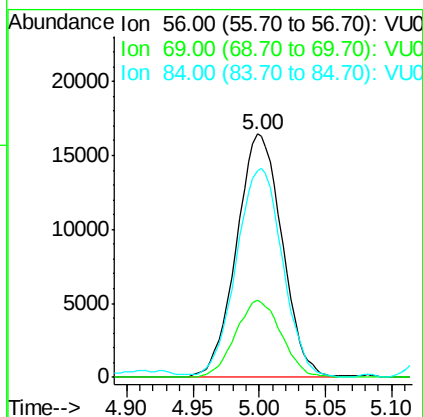
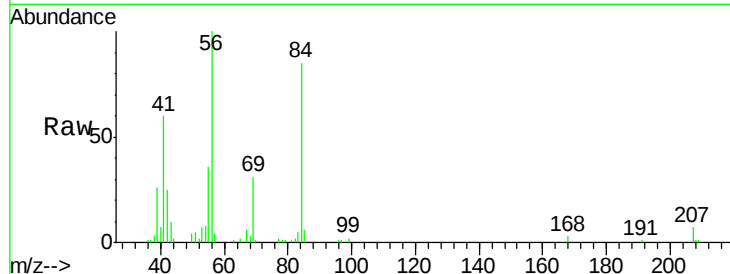




#29
Cyclohexane
Concen: 9.265 ug/L
RT: 5.00 min Scan# 1371
Delta R.T. -0.00 min
Lab File: VU025415.D
Acq: 16 Jul 2018 10:24

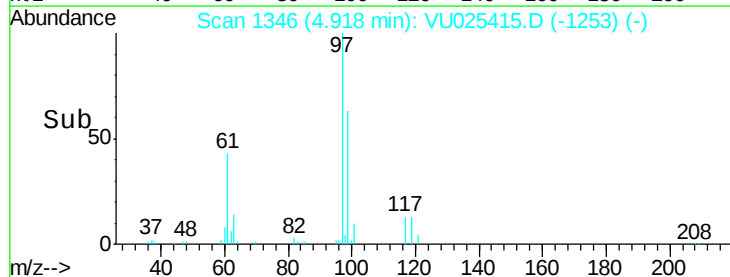
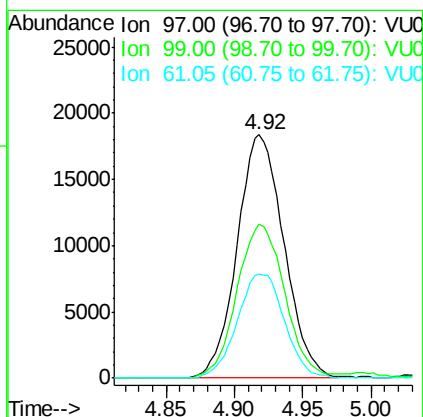
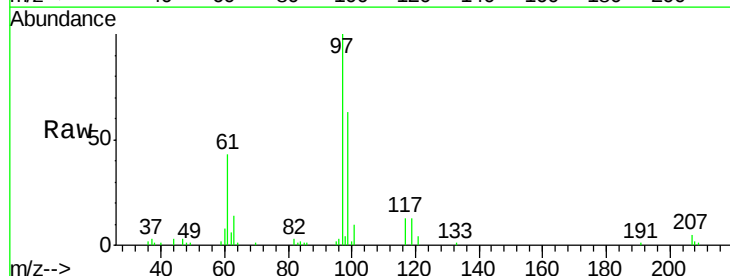
Instrument :
MSVOA_U
ClientSampleId :
VSTD01052

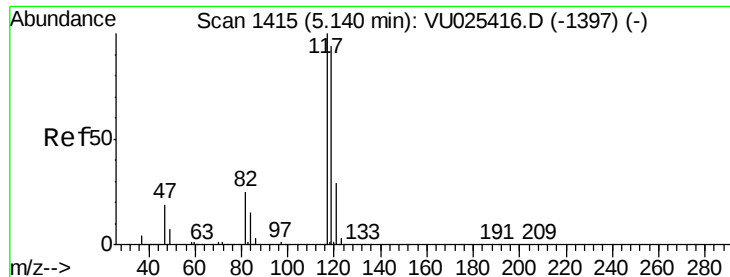
Tgt Ion: 56 Resp: 39323
Ion Ratio Lower Upper
56 100
69 31.8 24.8 37.2
84 87.4 70.0 105.0



#30
1,1,1-Trichloroethane
Concen: 9.906 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VU025415.D
Acq: 16 Jul 2018 10:24

Tgt Ion: 97 Resp: 43830
Ion Ratio Lower Upper
97 100
99 64.3 51.8 77.8
61 43.0 34.8 52.2





#31

Carbon tetrachloride

Concen: 9.845 ug/L

RT: 5.14 min Scan# 1414

Delta R.T. -0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Instrument :

MSVOA_U

ClientSampleId :

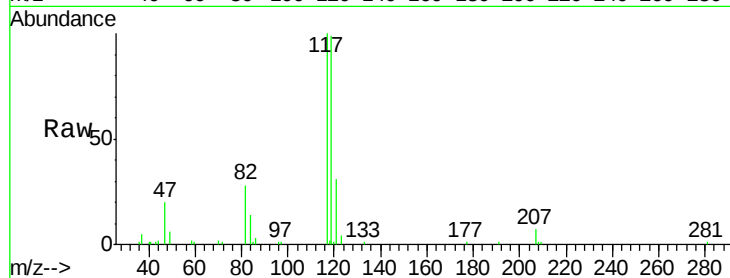
VSTD01052

Tgt Ion:117 Resp: 38029

Ion Ratio Lower Upper

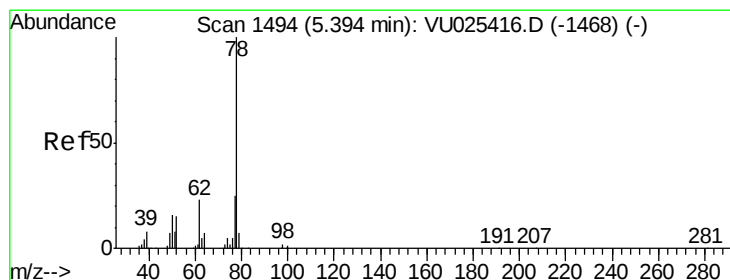
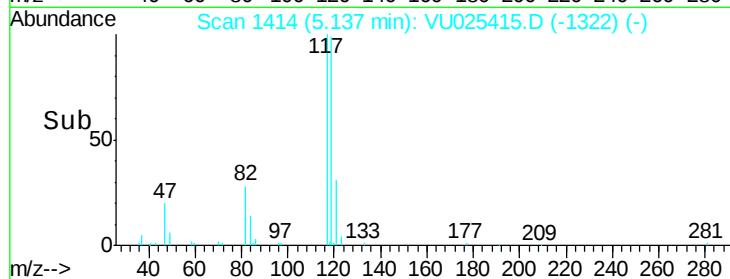
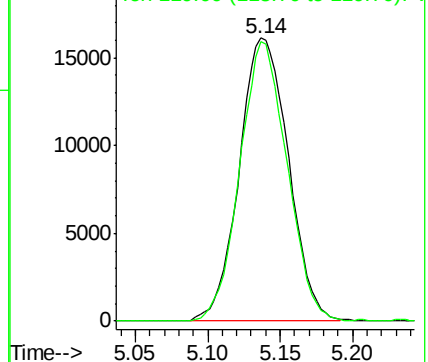
117 100

119 94.8 75.8 113.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 9.744 ug/L

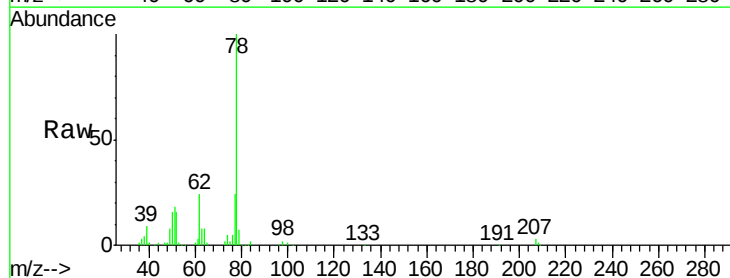
RT: 5.39 min Scan# 1494

Delta R.T. 0.00 min

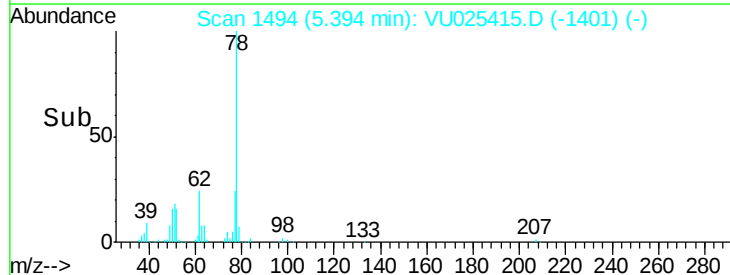
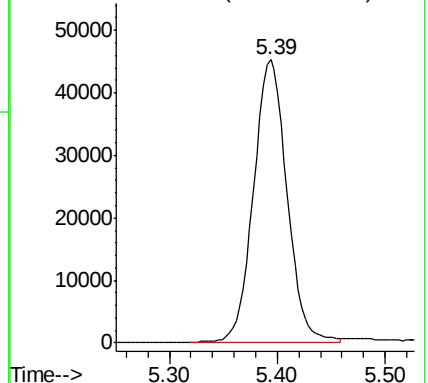
Lab File: VU025415.D

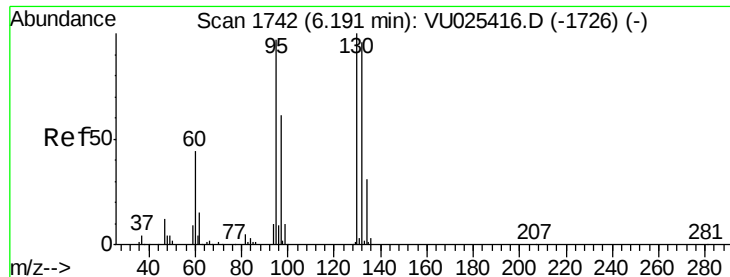
Acq: 16 Jul 2018 10:24

Tgt Ion: 78 Resp: 97888



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 9.760 ug/L

RT: 6.19 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD01052

Tgt Ion: 95 Resp: 25986

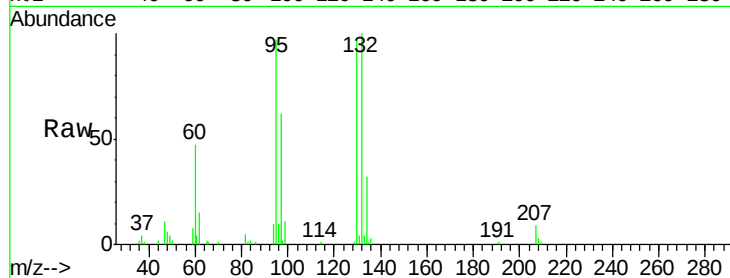
Ion Ratio Lower Upper

95 100

97 63.7 44.3 82.3

132 103.4 69.6 129.2

130 99.9 72.4 134.5

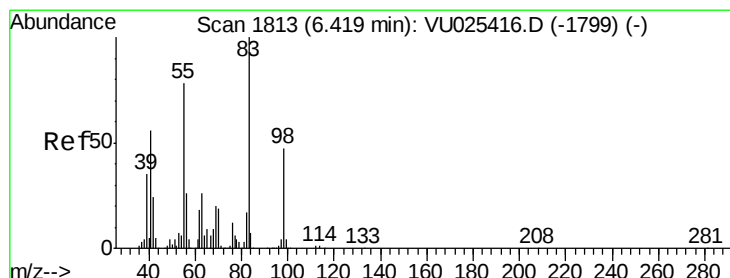
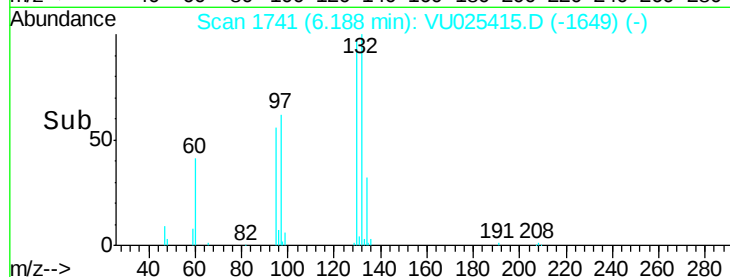
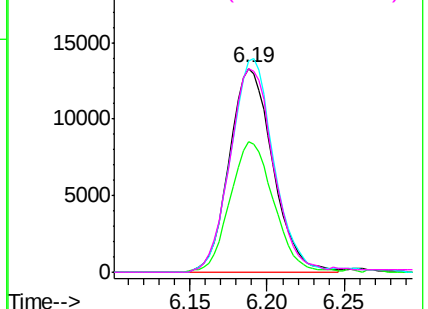


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 9.361 ug/L

RT: 6.42 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

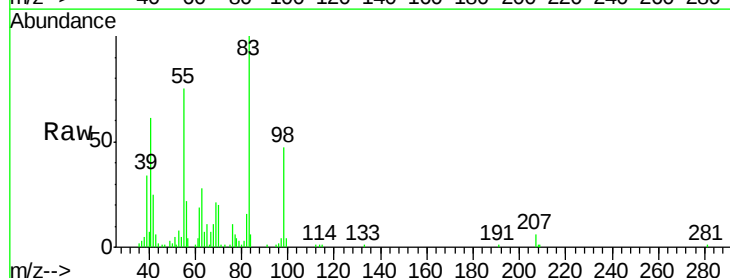
Tgt Ion: 83 Resp: 41446

Ion Ratio Lower Upper

83 100

55 76.0 60.6 90.8

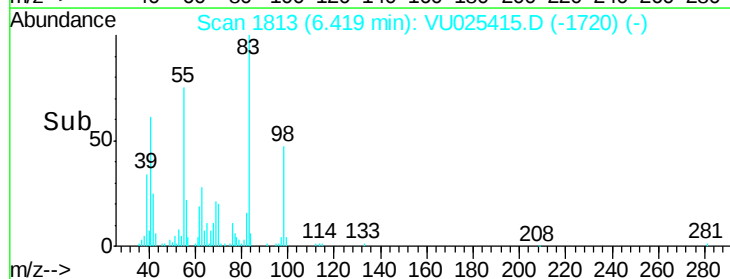
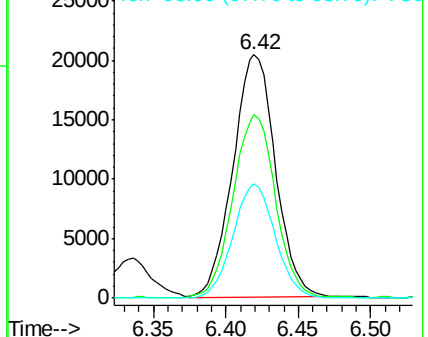
98 46.6 37.6 56.4

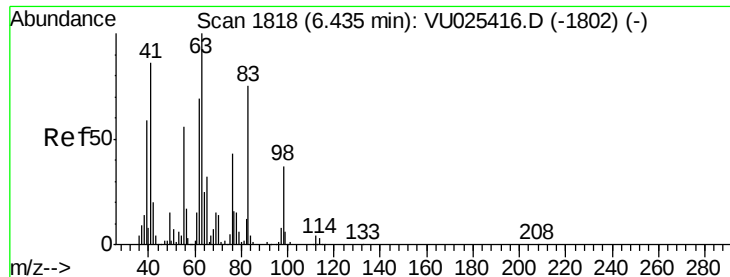


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

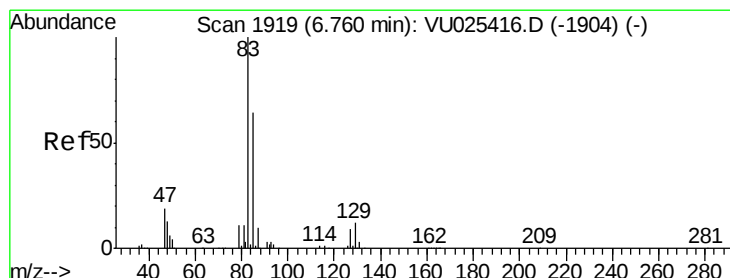
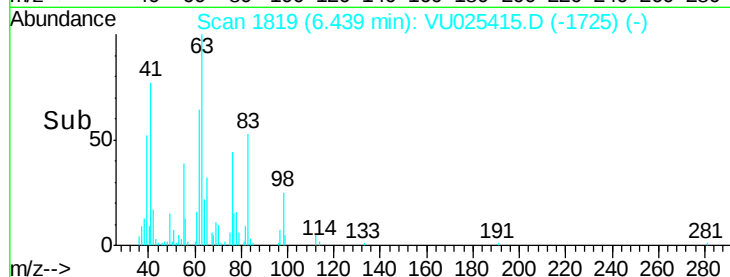
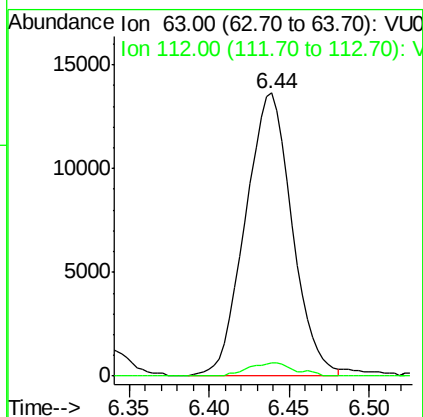
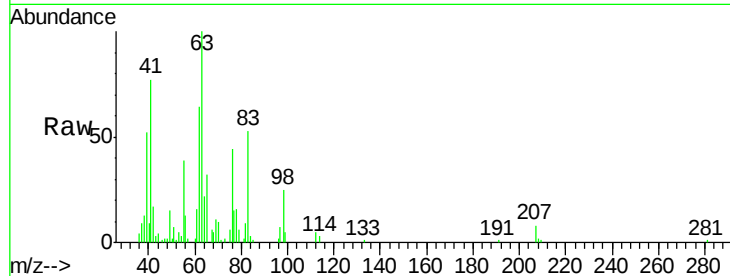




#37
 1,2-Dichloropropane
 Concen: 10.154 ug/L
 RT: 6.44 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: VU025415.D
 Acq: 16 Jul 2018 10:24

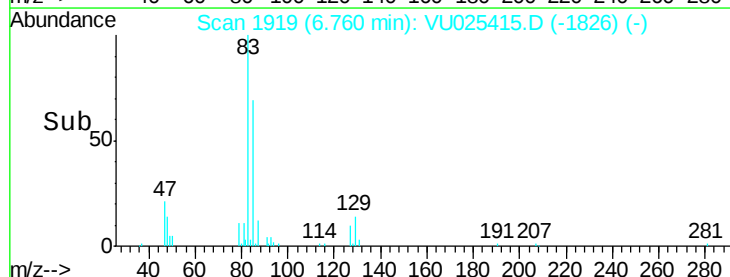
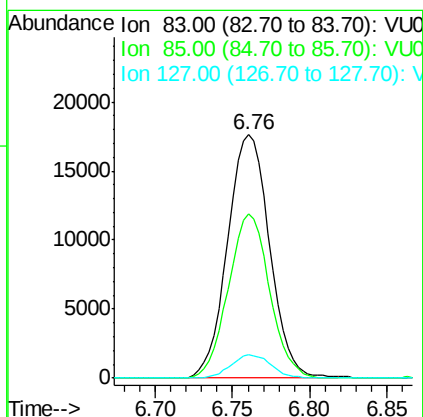
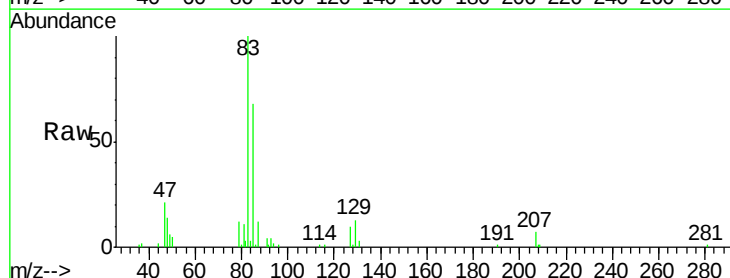
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01052

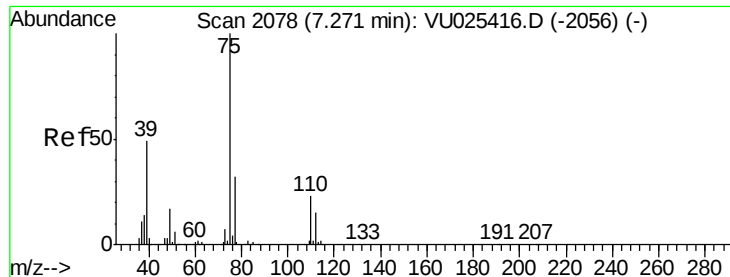
Tgt Ion: 63 Resp: 27337
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.3 4.9



#38
 Bromodichloromethane
 Concen: 9.372 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. 0.00 min
 Lab File: VU025415.D
 Acq: 16 Jul 2018 10:24

Tgt Ion: 83 Resp: 33260
 Ion Ratio Lower Upper
 83 100
 85 67.7 45.0 83.6
 127 9.5 7.4 11.0





#39

cis-1,3-Dichloropropene

Concen: 9.376 ug/L

RT: 7.27 min Scan# 2078

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Instrument :

MSVOA_U

ClientSampleId :

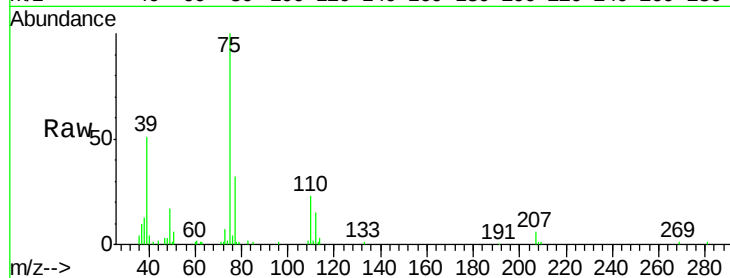
VSTD01052

Tgt Ion: 75 Resp: 39697

Ion Ratio Lower Upper

75 100

77 31.8 22.7 42.3



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

7.27

25000

20000

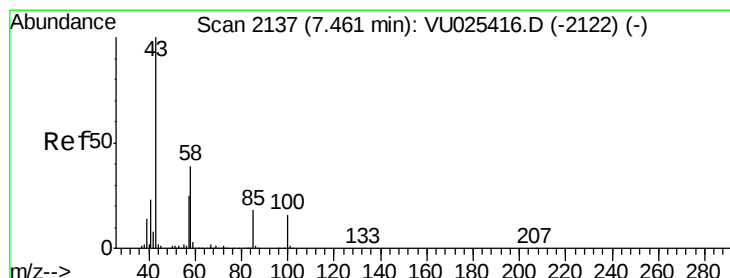
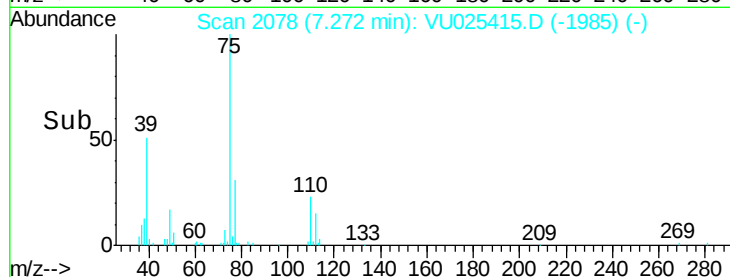
15000

10000

5000

0

Time--> 7.15 7.20 7.25 7.30 7.35



#40

4-Methyl-2-pentanone

Concen: 20.811 ug/L

RT: 7.46 min Scan# 2137

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

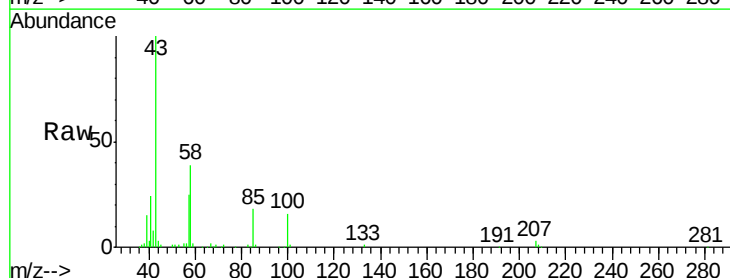
Tgt Ion: 43 Resp: 81975

Ion Ratio Lower Upper

43 100

58 37.3 31.0 46.4

100 15.0 12.5 18.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 100.00 (99.70 to 100.70): VU0

7.46

60000

50000

40000

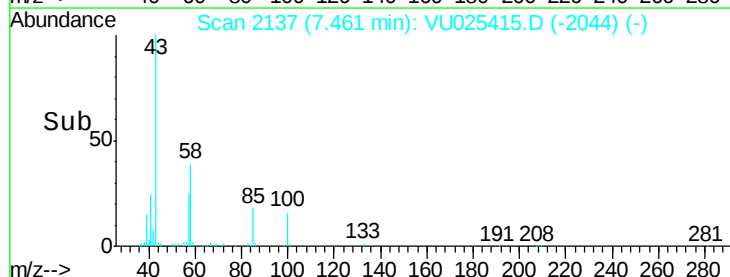
30000

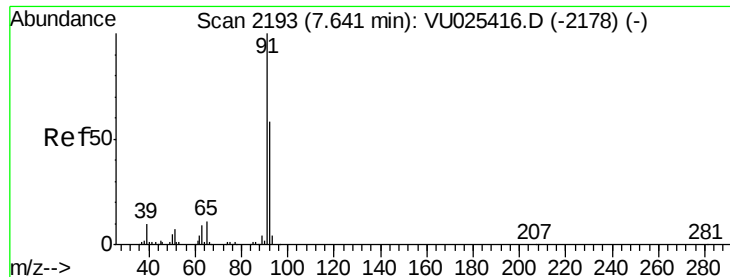
20000

10000

0

Time--> 7.40 7.45 7.50 7.55





#42

Toluene

Concen: 9.623 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Instrument :

MSVOA_U

ClientSampleId :

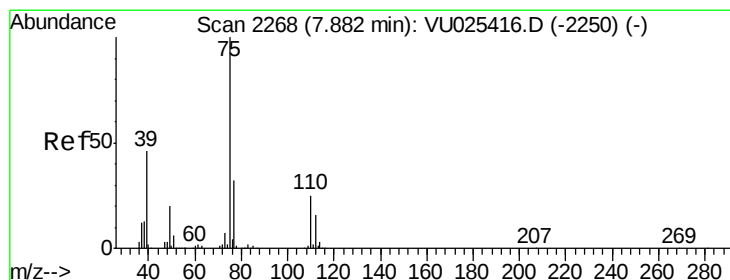
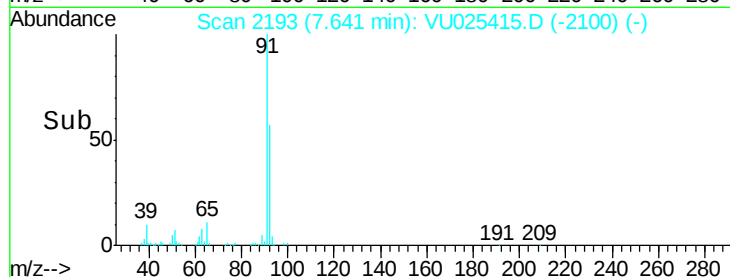
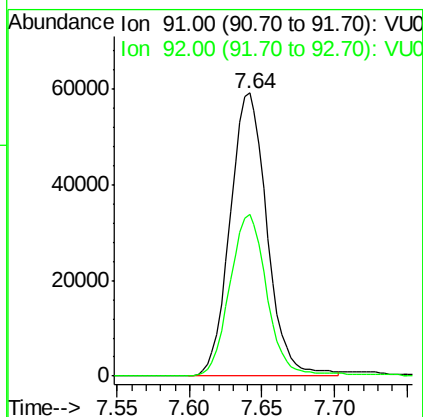
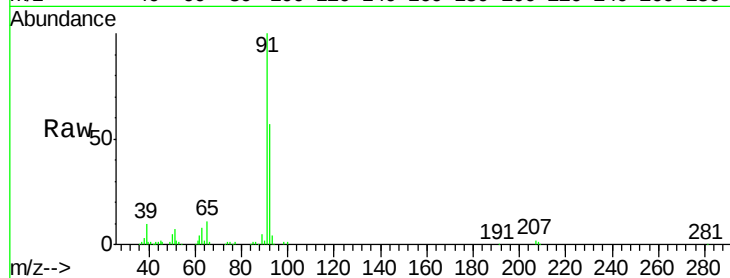
VSTD01052

Tgt Ion: 91 Resp: 104840

Ion Ratio Lower Upper

91 100

92 56.9 40.7 75.5



#44

trans-1,3-Dichloropropene

Concen: 9.212 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU025415.D

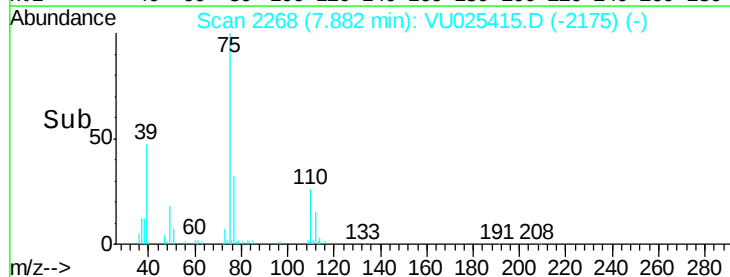
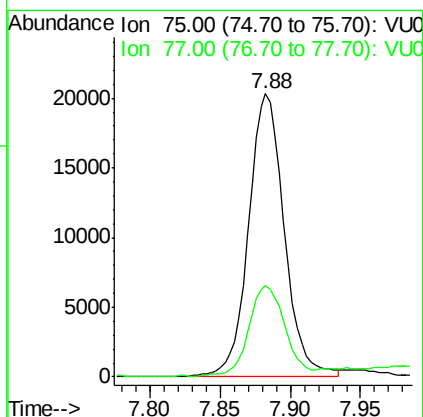
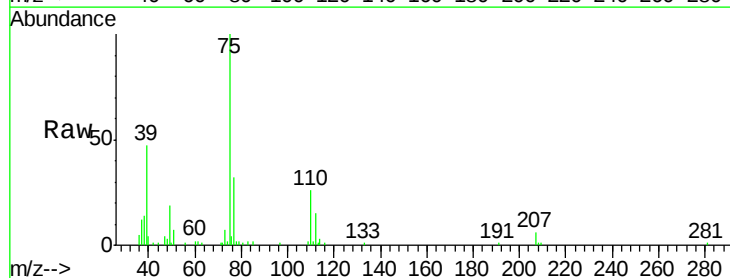
Acq: 16 Jul 2018 10:24

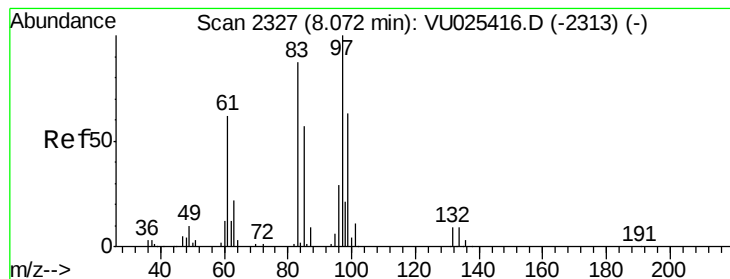
Tgt Ion: 75 Resp: 36143

Ion Ratio Lower Upper

75 100

77 32.1 22.4 41.6





#45

1,1,2-Trichloroethane

Concen: 10.287 ug/L

RT: 8.07 min Scan# 2326

Delta R.T. -0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD01052

Tgt Ion: 97 Resp: 26379

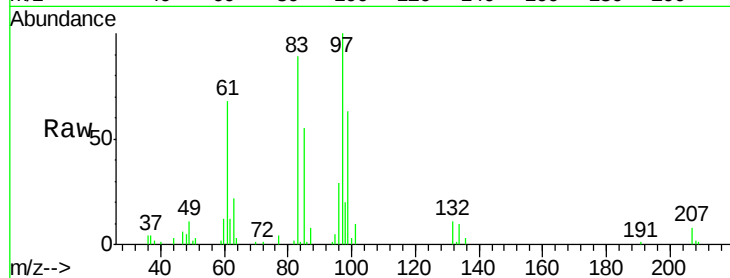
Ion	Ratio	Lower	Upper
97	100		
99	63.4	44.2	82.2
83	89.0	61.0	113.2
85	55.2	40.1	74.5

97 100

99 63.4 44.2 82.2

83 89.0 61.0 113.2

85 55.2 40.1 74.5



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

8.07

15000

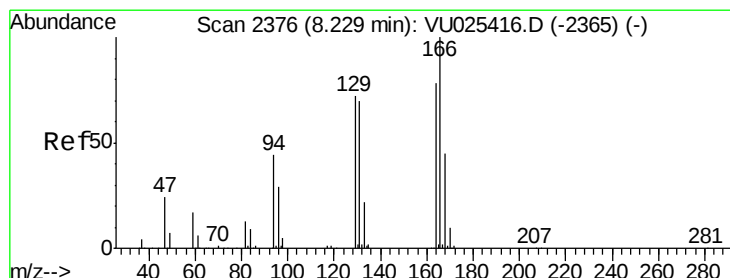
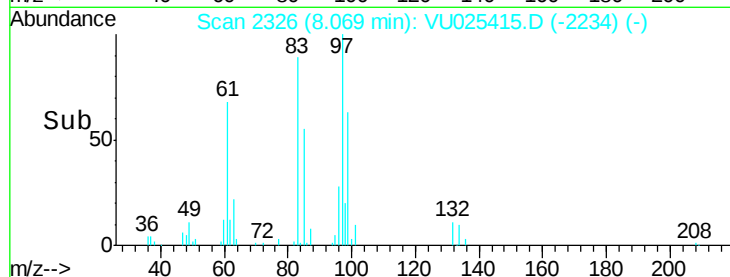
10000

5000

0

8.00 8.05 8.10 8.15

Time-->



#46

Tetrachloroethene

Concen: 9.597 ug/L

RT: 8.23 min Scan# 2376

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Tgt Ion:164 Resp: 21595

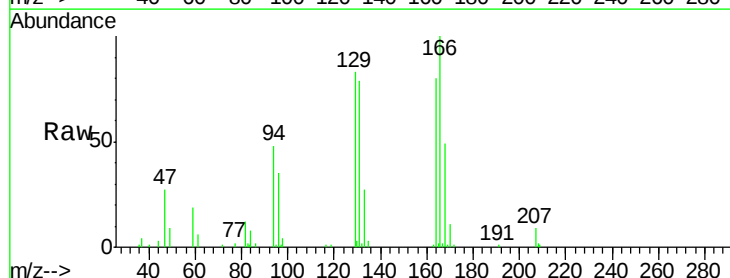
Ion	Ratio	Lower	Upper
164	100		
129	103.5	64.7	120.1
131	98.7	63.1	117.3
166	124.5	89.7	166.5

164 100

129 103.5 64.7 120.1

131 98.7 63.1 117.3

166 124.5 89.7 166.5



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

8.23

15000

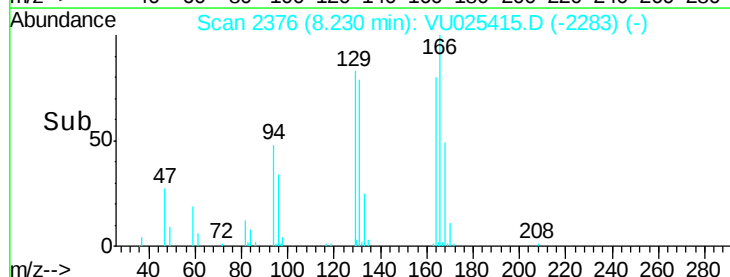
10000

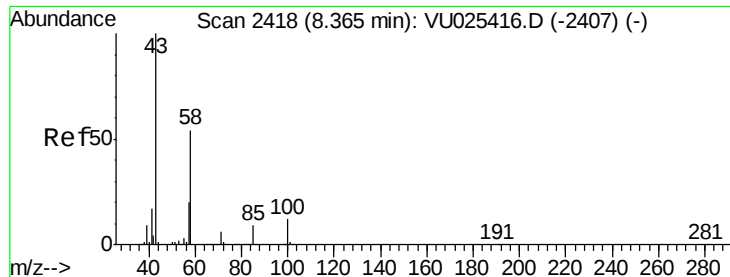
5000

0

8.20 8.25 8.30

Time-->

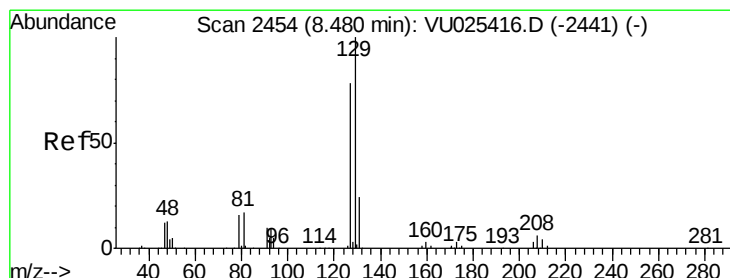
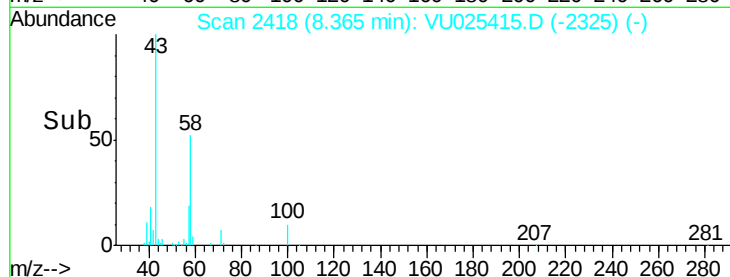
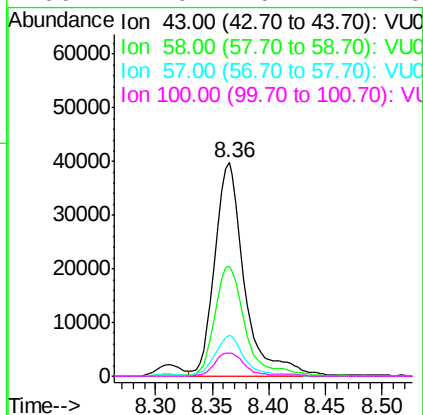
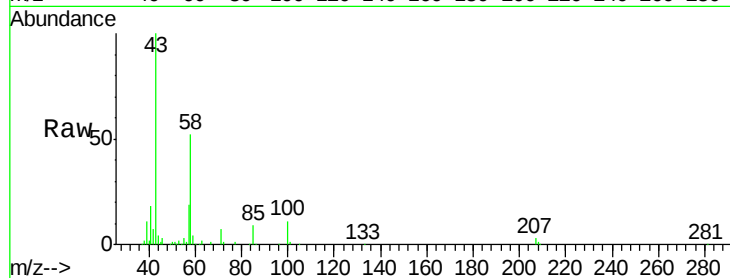




#48
2-Hexanone
Concen: 23.003 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU025415.D
Acq: 16 Jul 2018 10:24

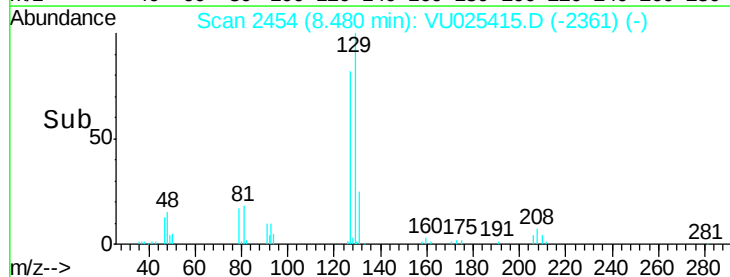
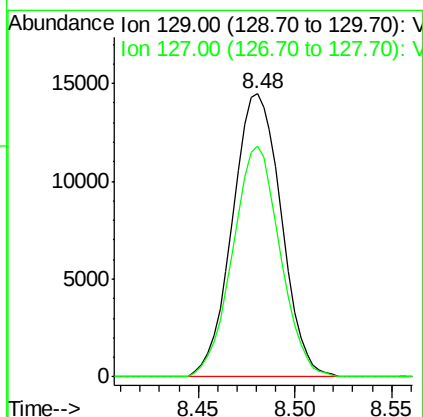
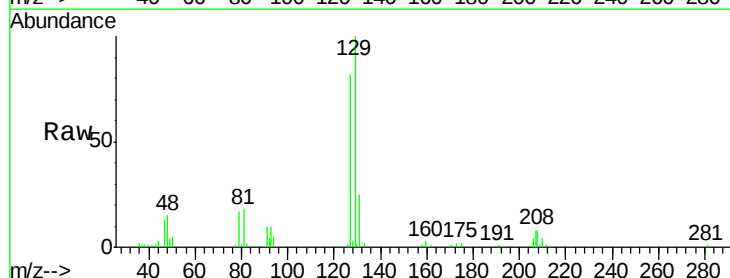
Instrument :
MSVOA_U
ClientSampleId :
VSTD01052

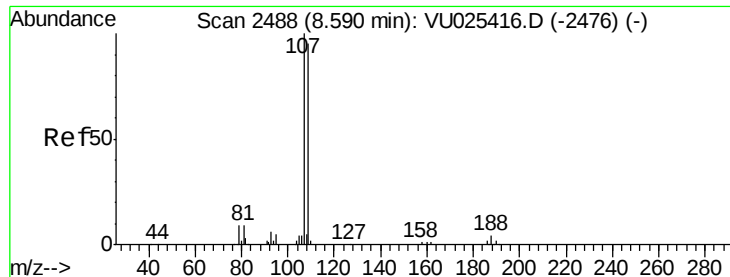
Tgt Ion:	43	Resp:	72951
Ion	Ratio	Lower	Upper
43	100		
58	52.4	43.0	64.4
57	17.6	15.8	23.6
100	11.0	9.4	14.0



#49
Dibromochloromethane
Concen: 8.555 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU025415.D
Acq: 16 Jul 2018 10:24

Tgt Ion:	129	Resp:	25404
Ion	Ratio	Lower	Upper
129	100		
127	81.7	54.4	101.0

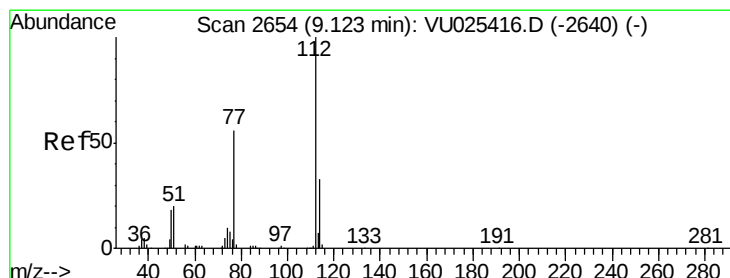
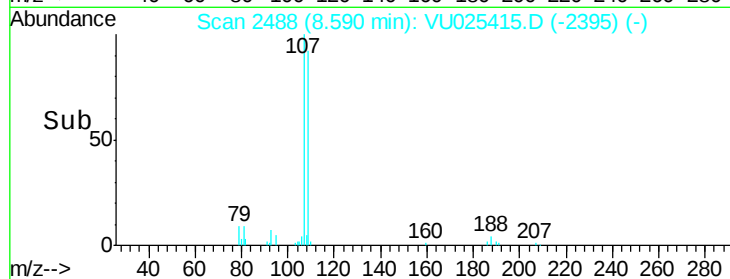
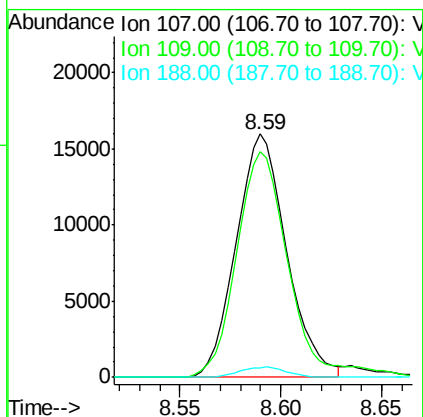
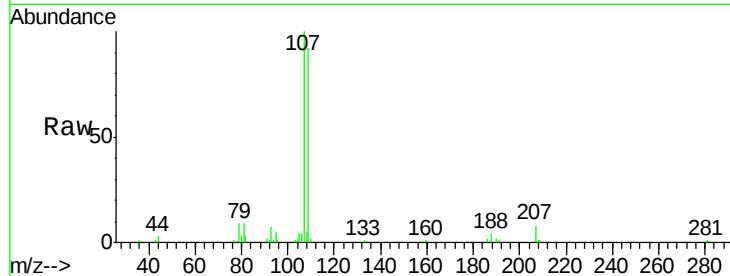




#50
1,2-Dibromoethane
Concen: 9.805 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. 0.00 min
Lab File: VU025415.D
Acq: 16 Jul 2018 10:24

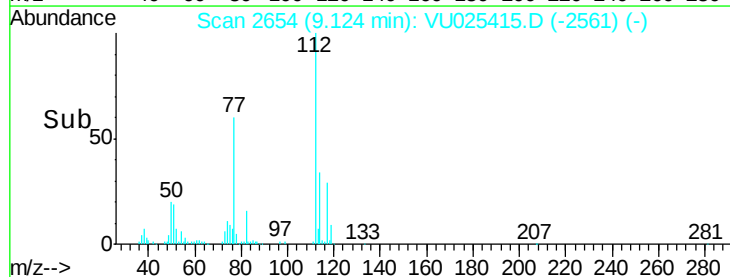
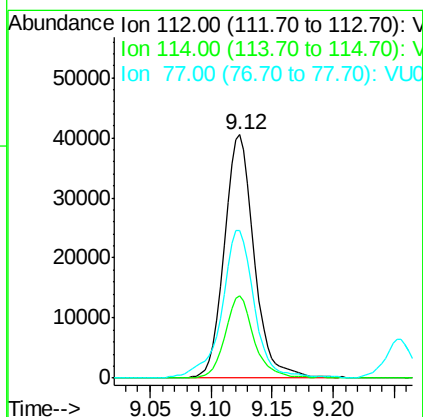
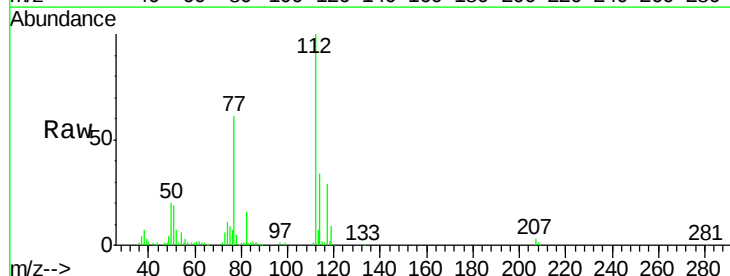
Instrument :
MSVOA_U
ClientSampleId :
VSTD01052

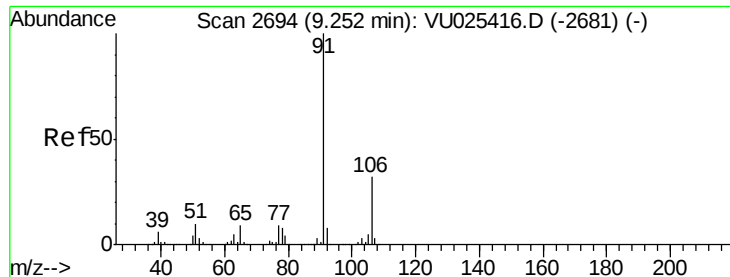
Tgt Ion:107 Resp: 27949
Ion Ratio Lower Upper
107 100
109 92.5 66.8 124.2
188 4.0 3.6 5.4



#51
Chlorobenzene
Concen: 9.584 ug/L
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU025415.D
Acq: 16 Jul 2018 10:24

Tgt Ion:112 Resp: 69806
Ion Ratio Lower Upper
112 100
114 33.9 22.8 42.4
77 60.6 45.5 68.3





#52

Ethylbenzene

Concen: 9.572 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Instrument :

MSVOA_U

ClientSampleId :

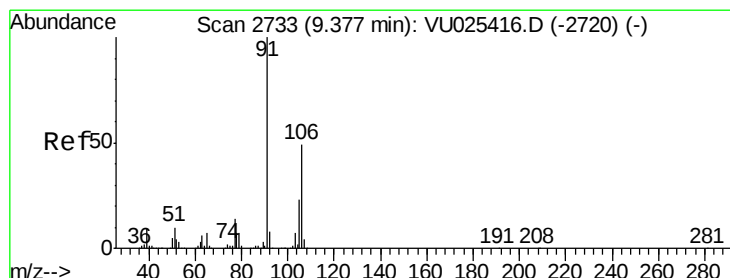
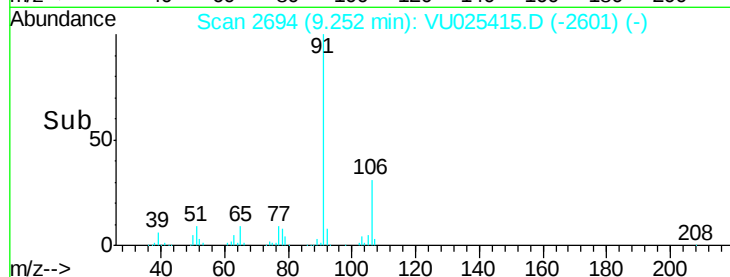
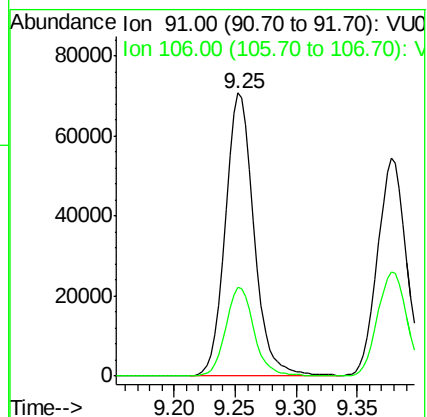
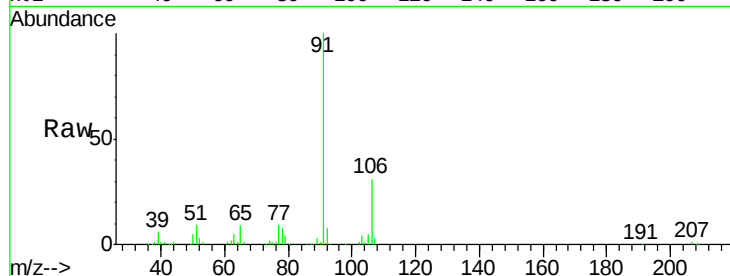
VSTD01052

Tgt Ion: 91 Resp: 117106

Ion Ratio Lower Upper

91 100

106 31.2 22.1 41.1



#53

m,p-Xylene

Concen: 9.261 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU025415.D

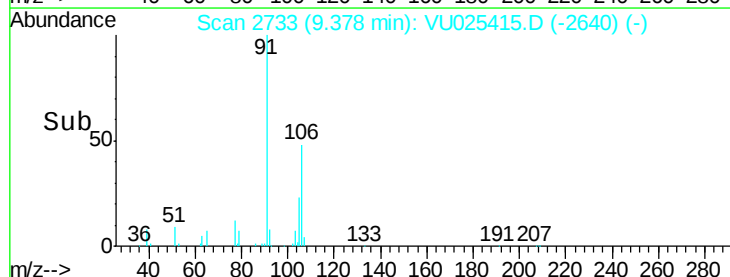
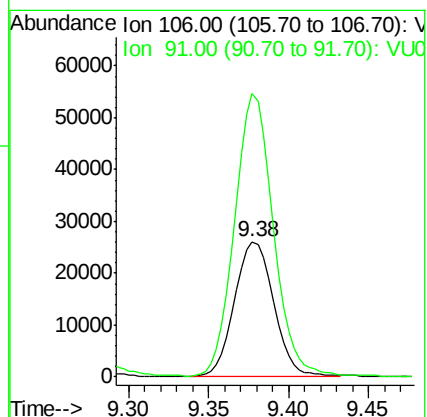
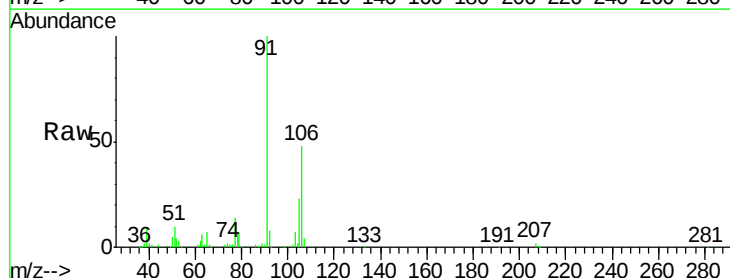
Acq: 16 Jul 2018 10:24

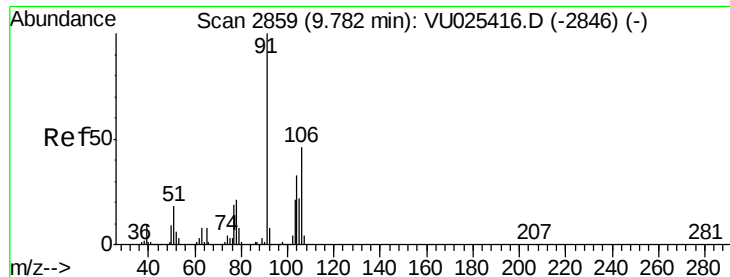
Tgt Ion: 106 Resp: 43863

Ion Ratio Lower Upper

106 100

91 209.5 141.8 263.4





#54

o-xylene

Concen: 9.518 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Instrument :

MSVOA_U

ClientSampleId :

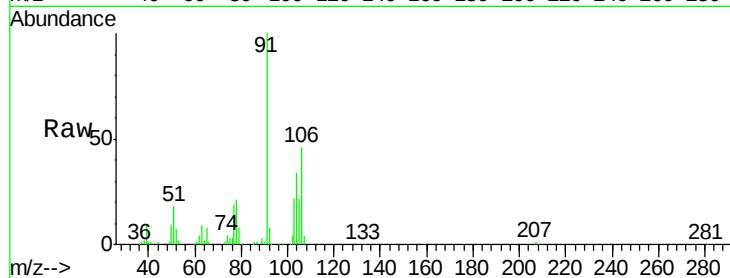
VSTD01052

Tgt Ion:106 Resp: 45186

Ion Ratio Lower Upper

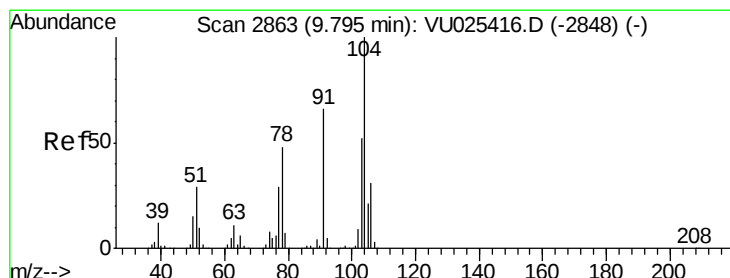
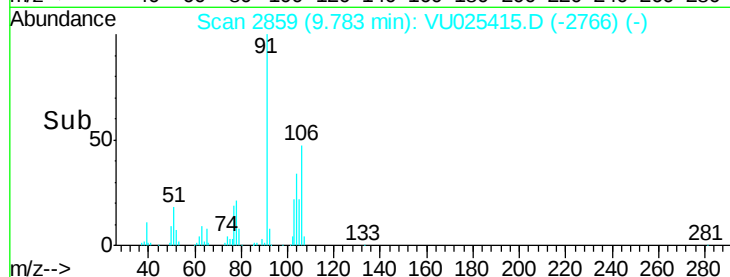
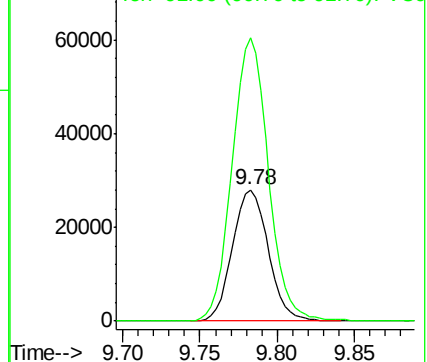
106 100

91 215.1 151.3 281.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 9.229 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VU025415.D

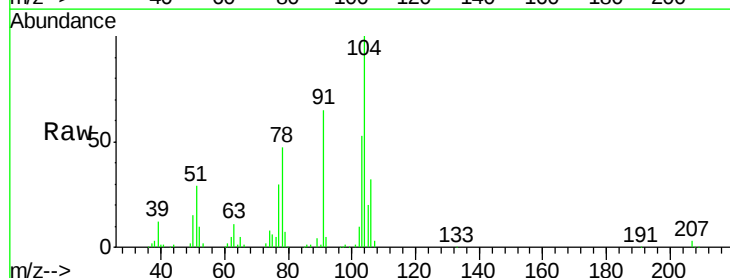
Acq: 16 Jul 2018 10:24

Tgt Ion:104 Resp: 71793

Ion Ratio Lower Upper

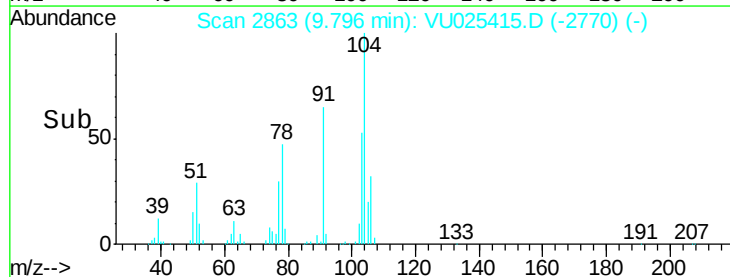
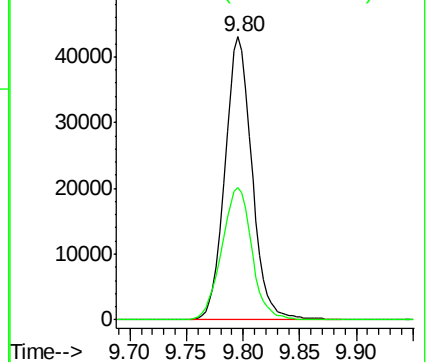
104 100

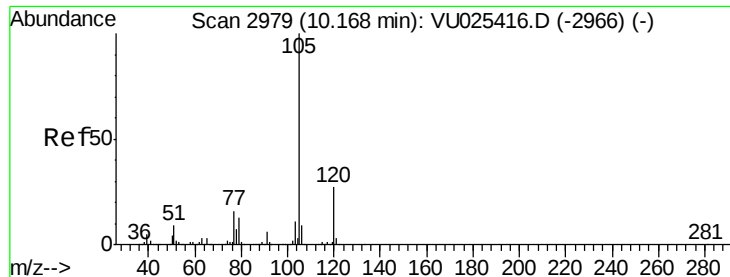
78 46.8 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 9.141 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD01052

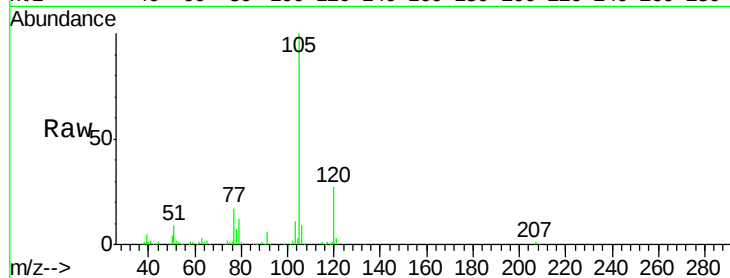
Tgt Ion: 105 Resp: 113803

Ion Ratio Lower Upper

105 100

120 27.1 21.7 32.5

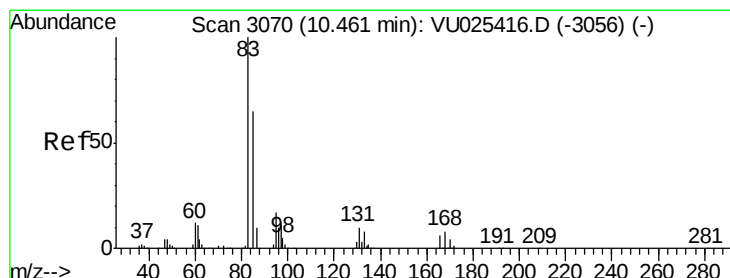
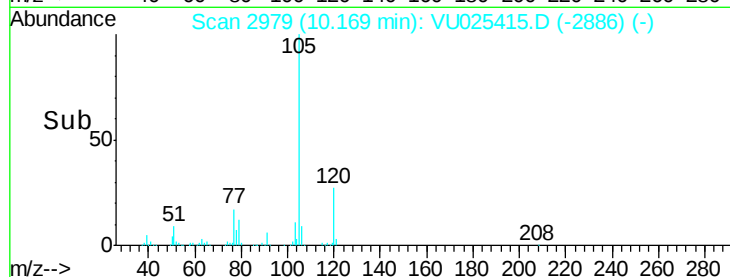
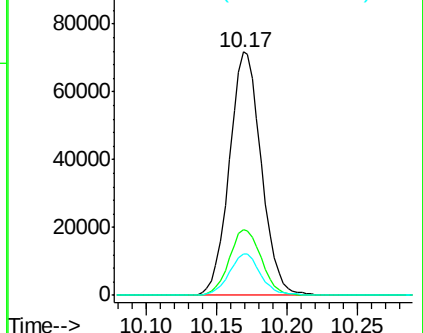
77 16.8 12.6 19.0



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: 10.296 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

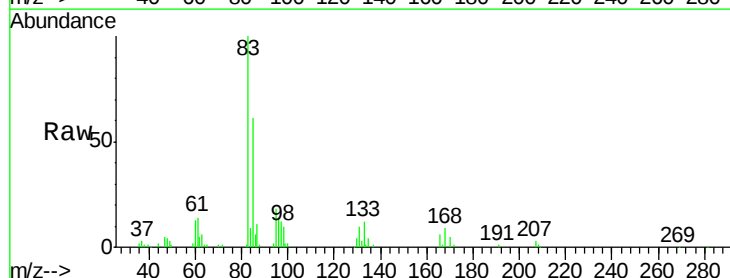
Tgt Ion: 83 Resp: 44652

Ion Ratio Lower Upper

83 100

85 60.9 45.9 85.3

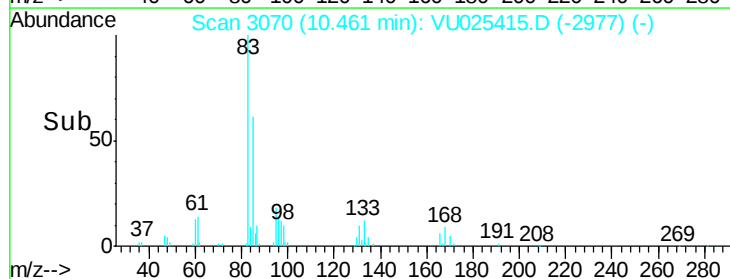
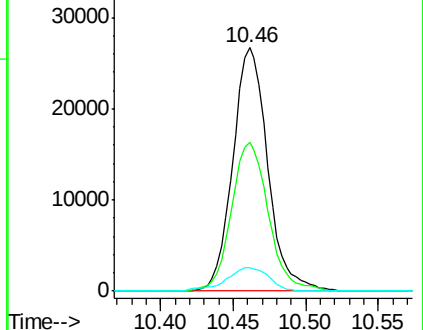
131 9.6 8.6 13.0

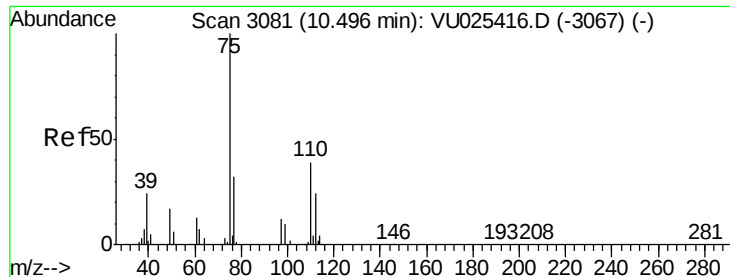


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 10.428 ug/L

RT: 10.50 min Scan# 3082

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Instrument :

MSVOA_U

ClientSampleId :

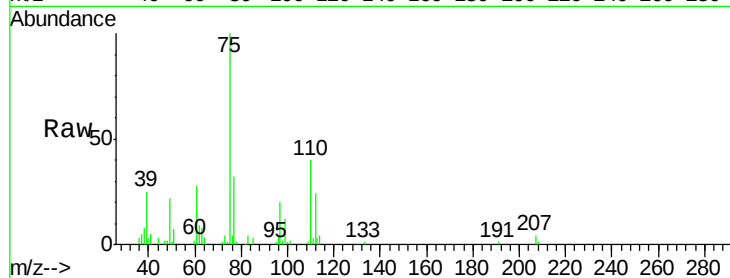
VSTD01052

Tgt Ion: 75 Resp: 36837

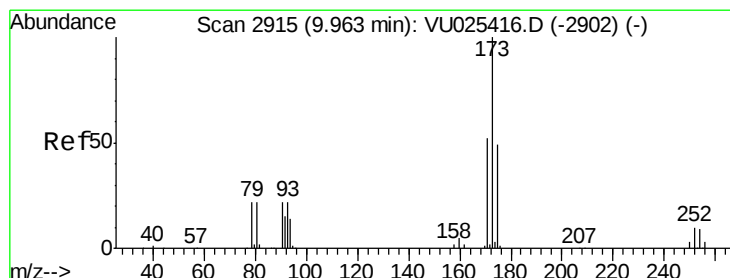
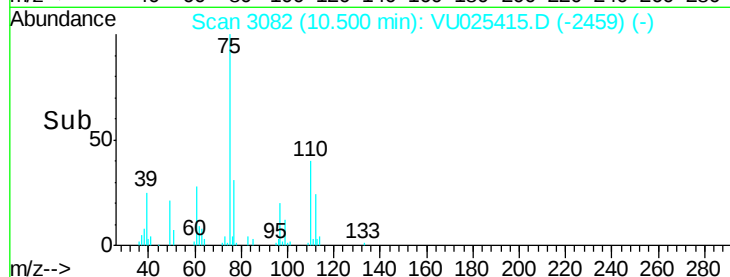
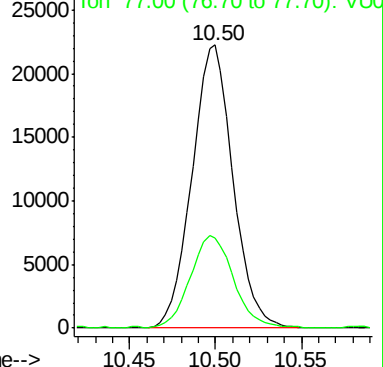
Ion Ratio Lower Upper

75 100

77 34.4 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU025415.D (-2459) (-)



#61

Bromoform

Concen: 8.705 ug/L

RT: 9.96 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

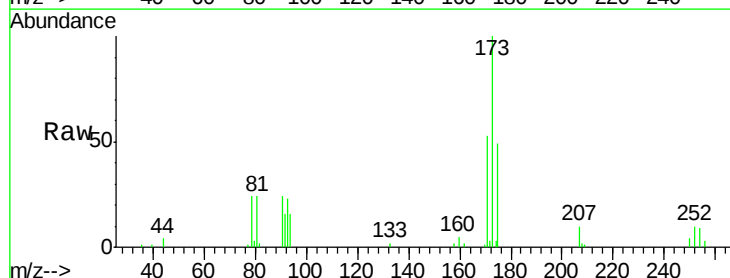
Tgt Ion: 173 Resp: 17460

Ion Ratio Lower Upper

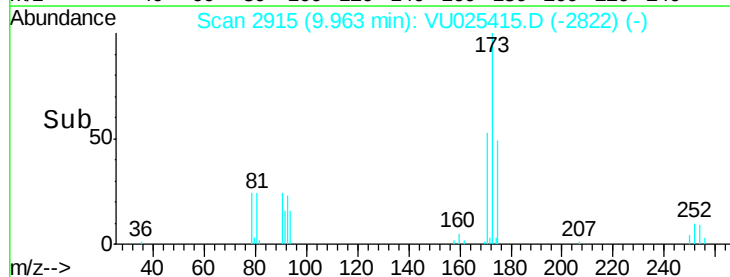
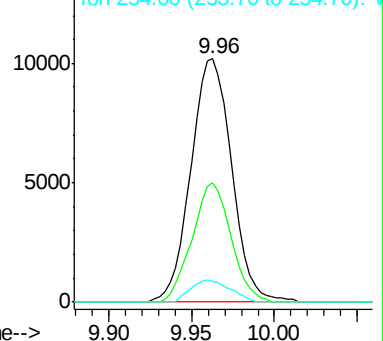
173 100

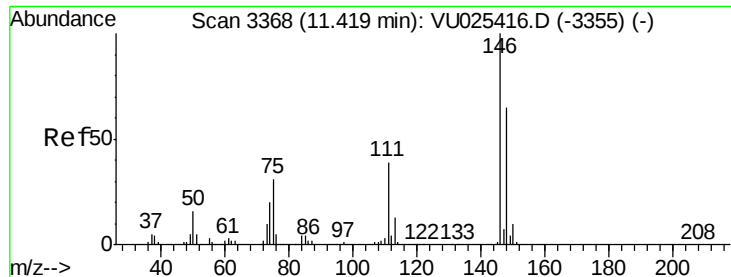
175 46.7 38.2 57.2

254 8.8 7.4 11.0



Abundance Ion 173.00 (172.70 to 173.70): VU025415.D (-2822) (-)





#62

1,3-Dichlorobenzene

Concen: 9.926 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD01052

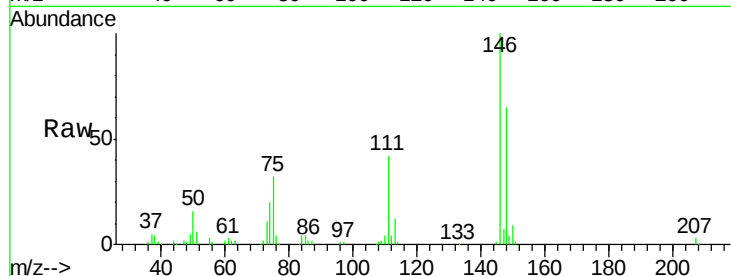
Tgt Ion:146 Resp: 51982

Ion Ratio Lower Upper

146 100

111 42.1 27.4 51.0

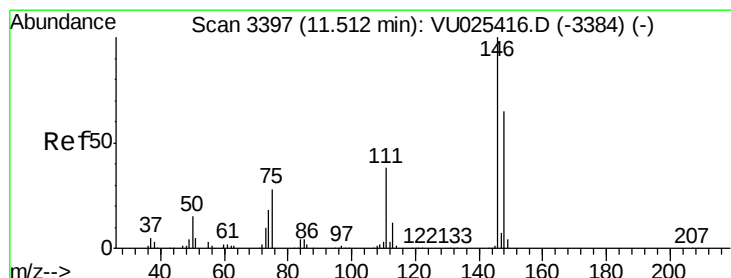
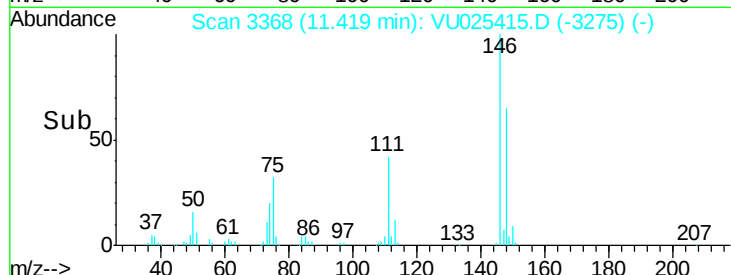
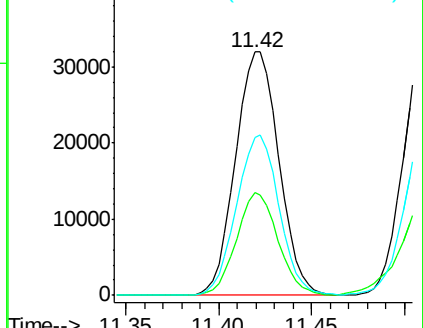
148 64.8 45.1 83.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 9.956 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

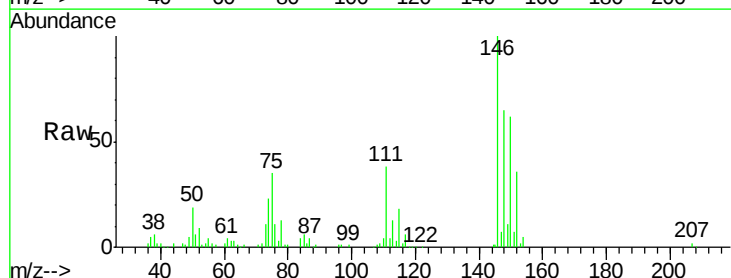
Tgt Ion:146 Resp: 52343

Ion Ratio Lower Upper

146 100

111 38.2 26.6 49.4

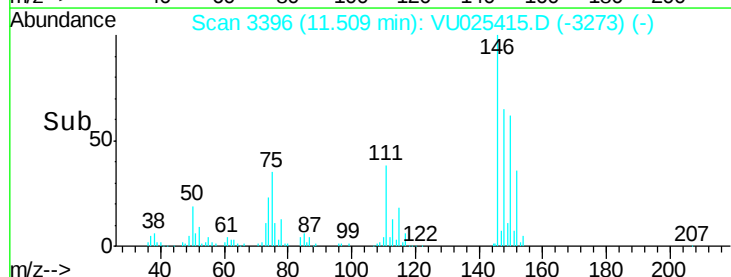
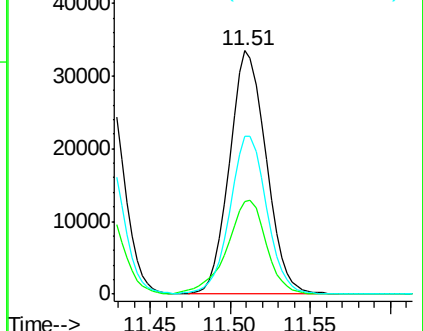
148 64.6 45.6 84.6

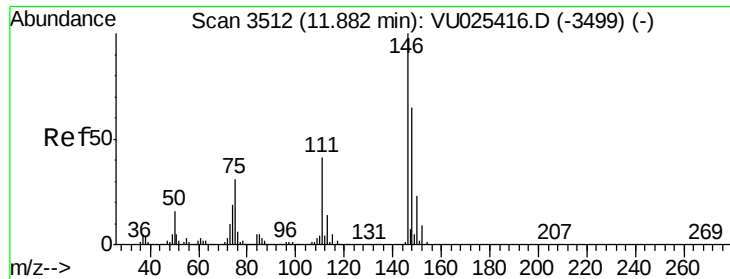


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

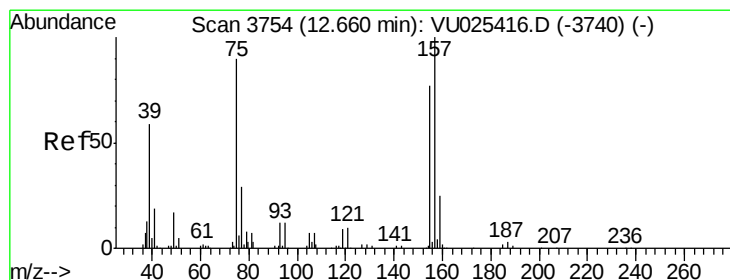
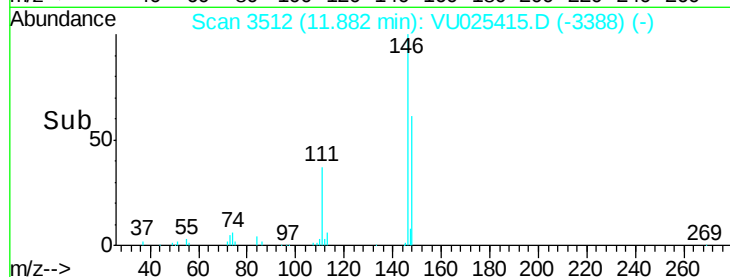
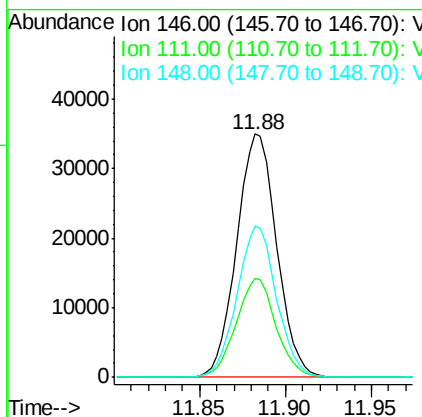
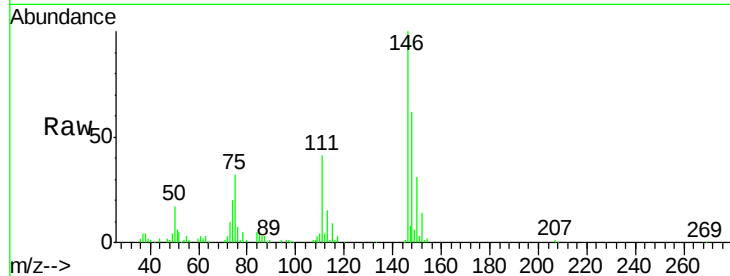




#65
 1,2-Dichlorobenzene
 Concen: 10.235 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. 0.00 min
 Lab File: VU025415.D
 Acq: 16 Jul 2018 10:24

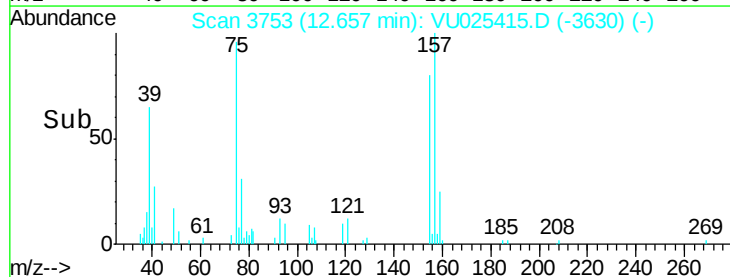
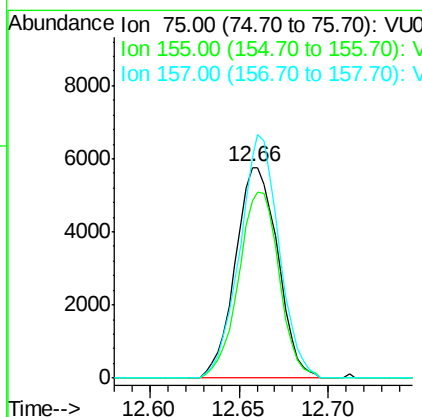
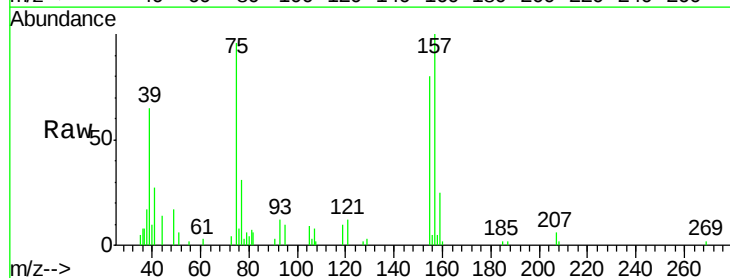
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01052

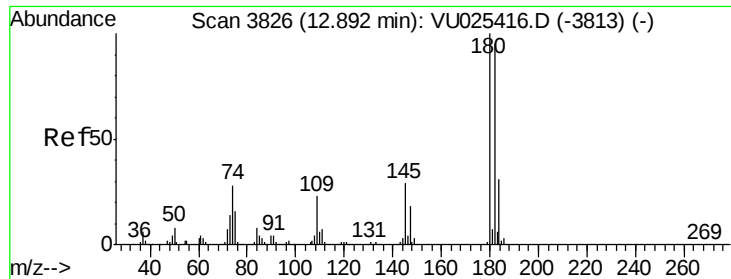
Tgt Ion: 146 Resp: 56436
 Ion Ratio Lower Upper
 146 100
 111 40.8 33.0 49.4
 148 62.1 51.8 77.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 10.283 ug/L
 RT: 12.66 min Scan# 3753
 Delta R.T. -0.00 min
 Lab File: VU025415.D
 Acq: 16 Jul 2018 10:24

Tgt Ion: 75 Resp: 9507
 Ion Ratio Lower Upper
 75 100
 155 84.2 68.7 103.1
 157 104.7 89.0 133.4

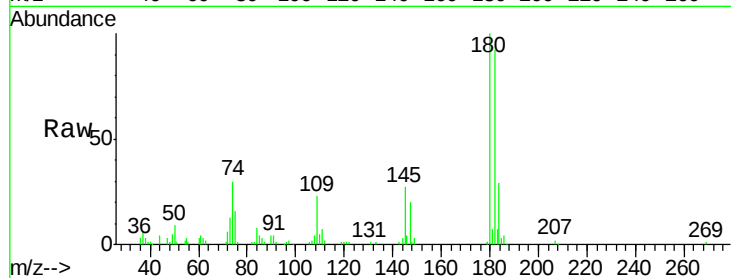




#67
 1,3,5-Trichlorobenzene
 Concen: 9.894 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU025415.D
 Acq: 16 Jul 2018 10:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01052

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.5	76.5	114.7
184	29.5	24.6	36.8
145	28.1	23.3	34.9

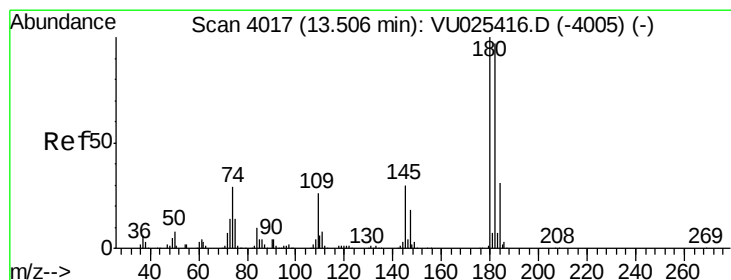
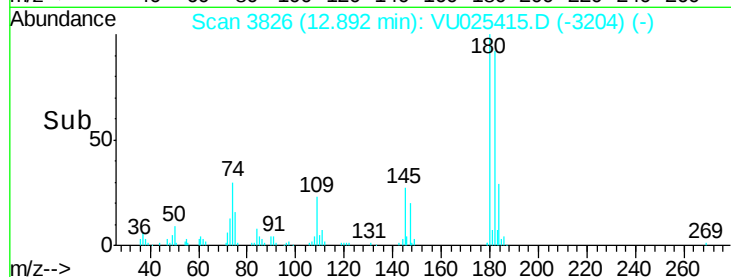
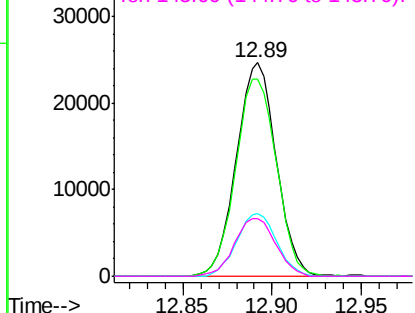


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

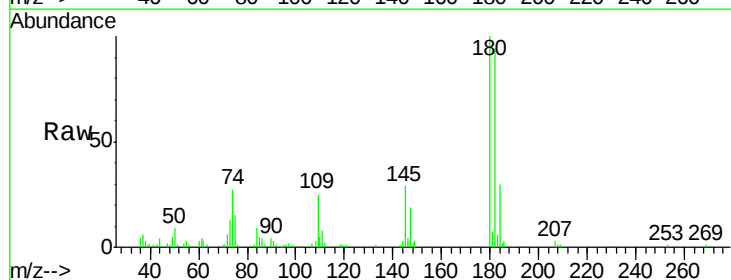
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 9.867 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU025415.D
 Acq: 16 Jul 2018 10:24

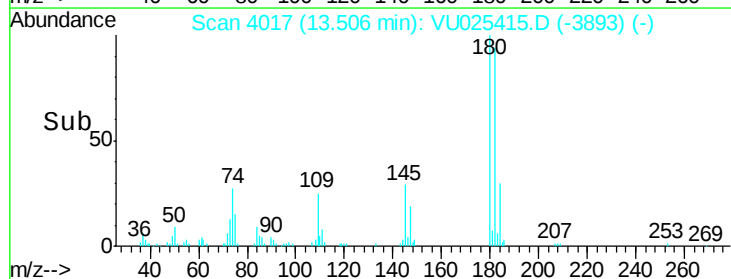
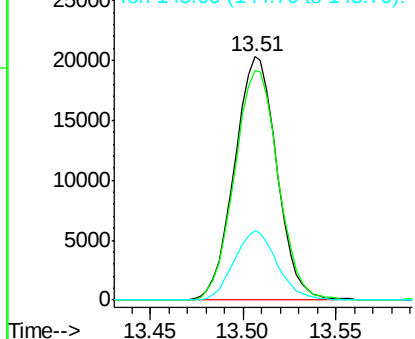
Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.2	77.0	115.6
145	29.1	24.2	36.2

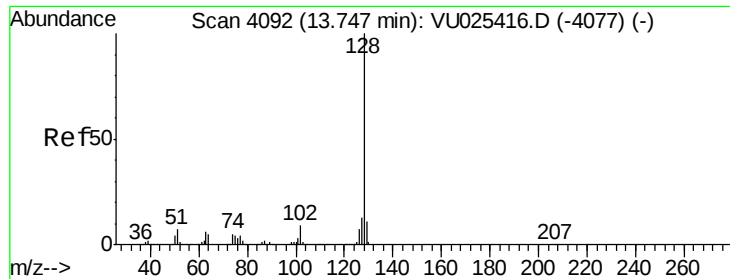


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 10.455 ug/L

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD01052

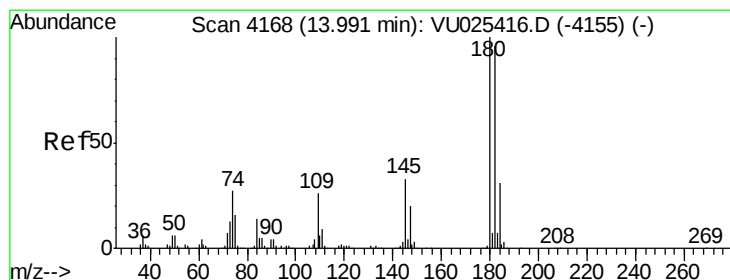
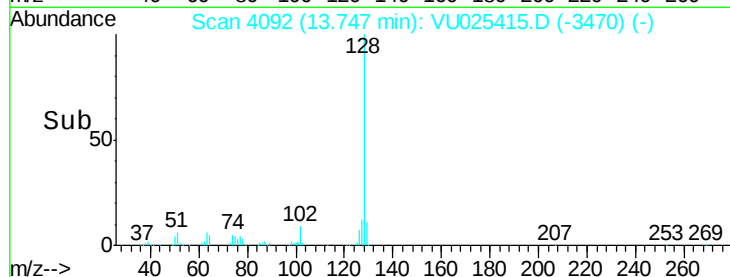
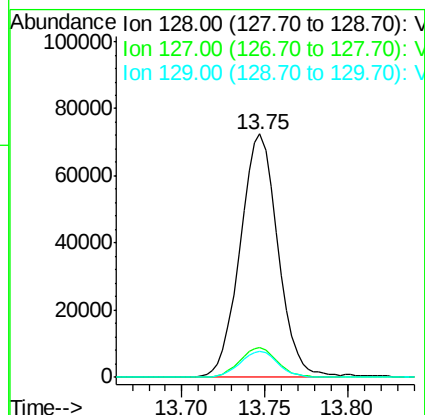
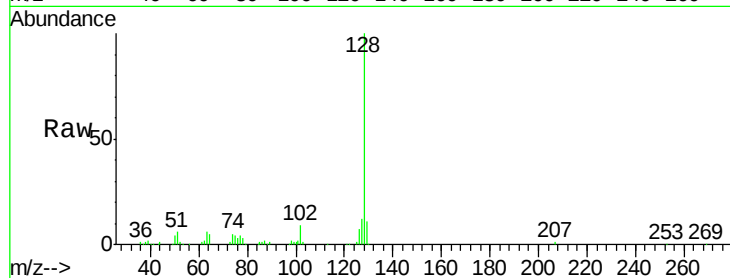
Tgt Ion:128 Resp: 115083

Ion Ratio Lower Upper

128 100

127 12.1 10.2 15.4

129 10.8 8.6 13.0



#70

1,2,3-Trichlorobenzene

Concen: 9.896 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU025415.D

Acq: 16 Jul 2018 10:24

Tgt Ion:180 Resp: 34856

Ion Ratio Lower Upper

180 100

182 96.7 76.2 114.4

145 30.8 25.4 38.2

