

Data File : VU035479.D
Acq On : 25 Oct 2019 10:54
Operator : JC/SP
Sample : VSTD0.501
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.501

Quant Time: Oct 25 23:20:12 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102519WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Oct 25 23:17:44 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	202991	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	221280	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	95335	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	13322	0.87	ug/L	0.00
7) Chloroethane-d5	1.93	69	11825	0.88	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.60	63	22746	0.84	ug/L	0.00
20) 2-Butanone-d5	4.72	46	25040	6.39	ug/L	0.00
24) Chloroform-d	5.11	84	18651	0.72	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	11144	0.78	ug/L	0.00
32) Benzene-d6	5.77	84	37037	0.66	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.74	67	12831	0.72	ug/L	0.00
41) Toluene-d8	7.93	98	32090	0.60	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.21	79	4553	0.55	ug/L	0.00
46) 2-Hexanone-d5	8.69	63	13604	3.84	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.79	84	10354	0.66	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.22	152	10046	0.56	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.40	85	14145	0.738 ug/L	100
3) Chloromethane	1.53	50	16621	0.821 ug/L	97
5) Vinyl chloride	1.62	62	15722	0.770 ug/L	90
6) Bromomethane	1.88	94	8760	0.758 ug/L	91
8) Chloroethane	1.95	64	9864	0.769 ug/L	89
9) Trichlorofluoromethane	2.16	101	19349	0.745 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	10741	0.722 ug/L	98
12) 1,1-Dichloroethene	2.61	96	10202	0.715 ug/L	96
13) Acetone	2.69	43	22003	7.899 ug/L	100
14) Carbon disulfide	2.82	76	36047	0.775 ug/L	96
15) Methyl Acetate	3.00	43	4741	0.693 ug/L	99
16) Methylene chloride	3.09	84	15412	0.884 ug/L	91
17) Methyl tert-butyl Ether	3.43	73	22680	0.611 ug/L #	95
18) trans-1,2-Dichloroethene	3.39	96	10689	0.696 ug/L	99
19) 1,1-Dichloroethane	3.92	63	21401	0.750 ug/L	99
21) 2-Butanone	4.80	43	27863	6.273 ug/L	95
22) cis-1,2-Dichloroethene	4.72	96	11297	0.670 ug/L	98
23) Bromochloromethane	5.02	128	5617	0.768 ug/L	91
25) Chloroform	5.14	83	25127	0.808 ug/L	95
27) 1,2-Dichloroethane	5.84	62	13859	0.736 ug/L	98
29) 1,1,1-Trichloroethane	5.36	97	17256	0.631 ug/L	98
30) Cyclohexane	5.43	56	15872	0.547 ug/L	93
31) Carbon tetrachloride	5.57	117	15106	0.612 ug/L	97
33) Benzene	5.82	78	43948	0.629 ug/L	100
34) Trichloroethene	6.58	95	11053	0.602 ug/L	92
35) Methylcyclohexane	6.80	83	14832	0.493 ug/L	98
37) 1,2-Dichloropropane	6.84	63	11809	0.662 ug/L	98
38) Bromodichloromethane	7.15	83	14575	0.619 ug/L	99
39) cis-1,3-Dichloropropene	7.65	75	15566	0.544 ug/L	97
40) 4-Methyl-2-pentanone	7.85	43	61674	5.215 ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.01	91	41505	0.544	ug/L	92
44) trans-1,3-Dichloropropene	8.25	75	11291	0.484	ug/L	83
45) 1,1,2-Trichloroethane	8.44	97	8353	0.643	ug/L	87
47) Tetrachloroethene	8.58	164	9044	0.594	ug/L	88
48) 2-Hexanone	8.74	43	36552	4.394	ug/L	99
49) Dibromochloromethane	8.84	129	9403	0.581	ug/L	98
50) 1,2-Dibromoethane	8.96	107	7353	0.573	ug/L #	97
51) Chlorobenzene	9.48	112	27304	0.562	ug/L	97
52) Ethylbenzene	9.60	91	42558	0.502	ug/L	96
53) m,p-Xylene	9.72	106	14320	0.448	ug/L	99
54) o-Xylene	10.13	106	14361	0.461	ug/L	93
55) Styrene	10.15	104	20908	0.410	ug/L	97
56) Isopropylbenzene	10.51	105	36055	0.434	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.81	83	10526	0.623	ug/L	97
59) 1,2,3-Trichloropropane	10.85	75	7263	0.599	ug/L	98
61) Bromoform	10.32	173	5479	0.625	ug/L #	98
62) 1,3-Dichlorobenzene	11.77	146	16471	0.504	ug/L	96
63) 1,4-Dichlorobenzene	11.86	146	17377	0.541	ug/L	95
65) 1,2-Dichlorobenzene	12.24	146	16200	0.528	ug/L	97
66) 1,2-Dibromo-3-chloropropan	13.02	75	1057	0.487	ug/L	91
67) 1,3,5-Trichlorobenzene	13.25	180	8237	0.403	ug/L	96
68) 1,2,4-trichlorobenzene	13.86	180	3689	0.280	ug/L	99
69) Naphthalene	14.11	128	5098	0.281	ug/L	97
70) 1,2,3-Trichlorobenzene	14.35	180	3902	0.311	ug/L	94

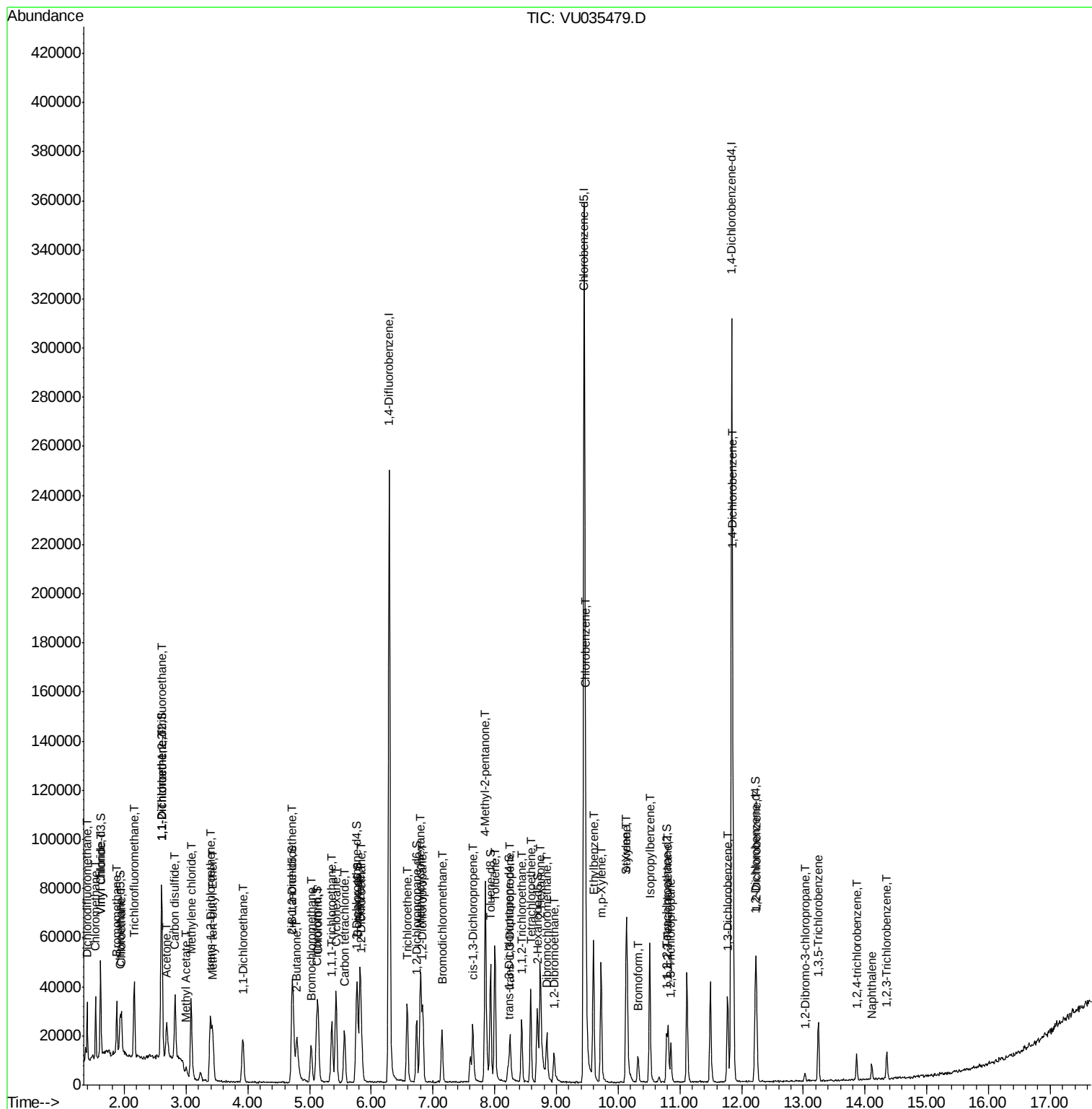
(#) = qualifier out of range (m) = manual integration (+) = signals summed

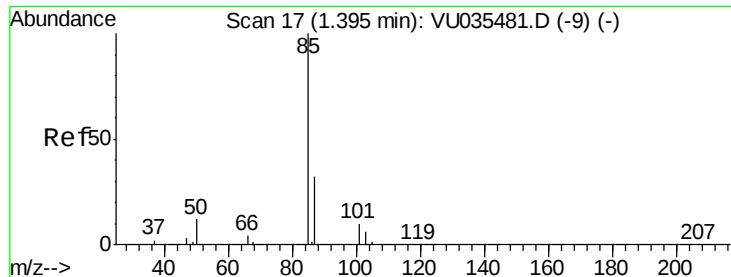
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#2

Dichlorodifluoromethane

Concen: 0.738 ug/L

RT: 1.40 min Scan# 18

Delta R.T. 0.00 min

Lab File: VU035479.D

Acq: 25 Oct 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

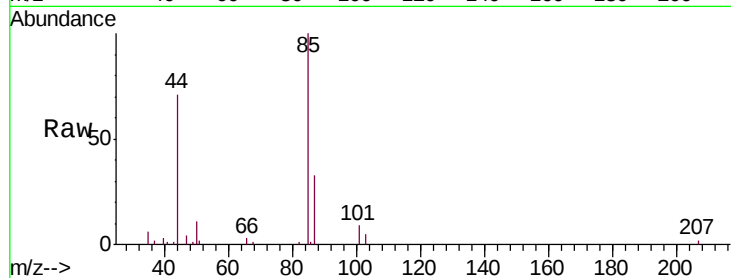
VSTD0.501

Tgt Ion: 85 Resp: 14145

Ion Ratio Lower Upper

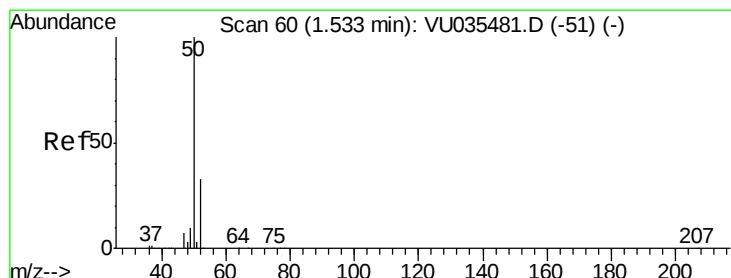
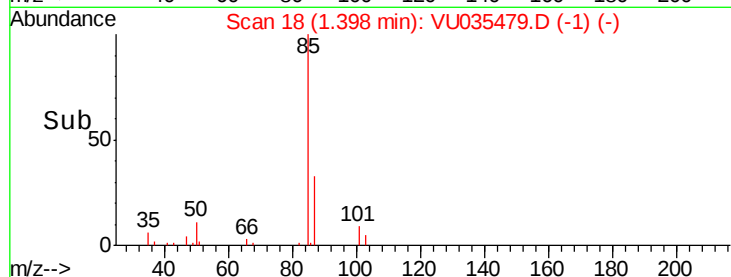
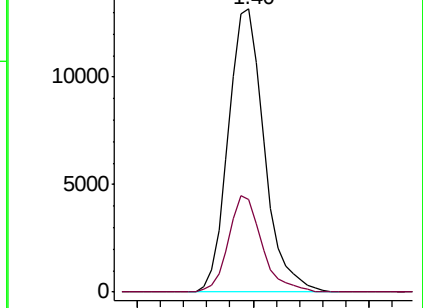
85 100

87 31.7 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU035481.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU035481.D (-9) (-)



#3

Chloromethane

Concen: 0.821 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU035479.D

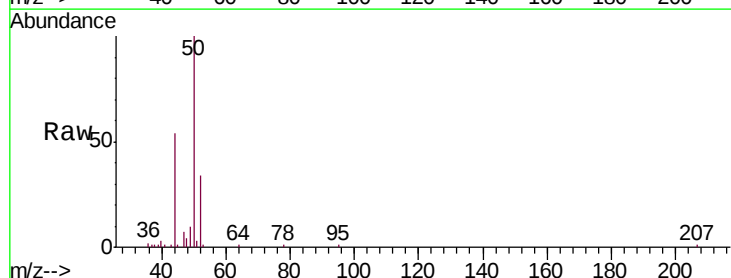
Acq: 25 Oct 2019 10:54

Tgt Ion: 50 Resp: 16621

Ion Ratio Lower Upper

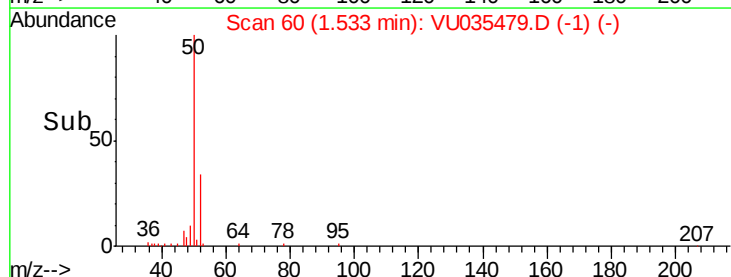
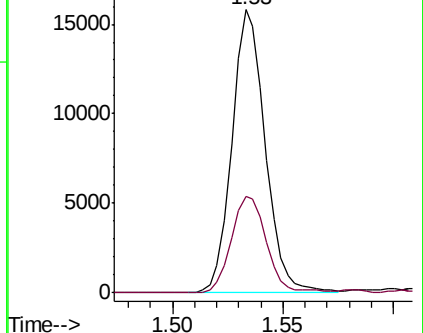
50 100

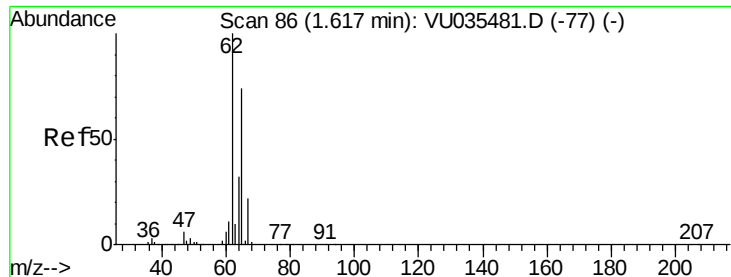
52 34.1 22.7 42.3



Abundance Ion 50.05 (49.75 to 50.75): VU035481.D (-51) (-)

Ion 52.05 (51.75 to 52.75): VU035481.D (-51) (-)





#5

Vinyl chloride

Concen: 0.770 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU035479.D

Acq: 25 Oct 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

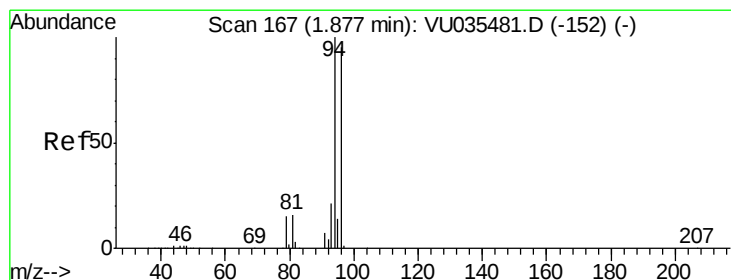
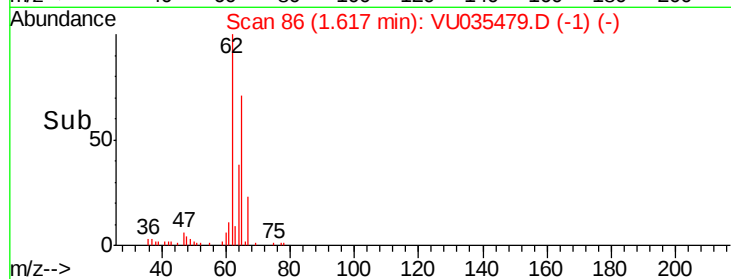
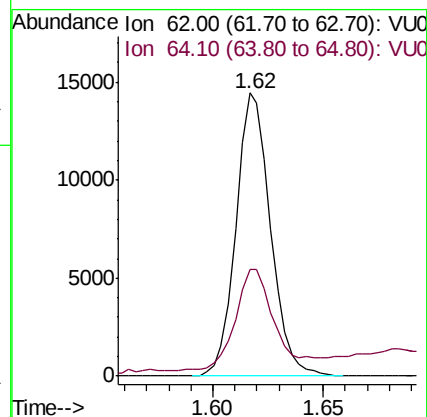
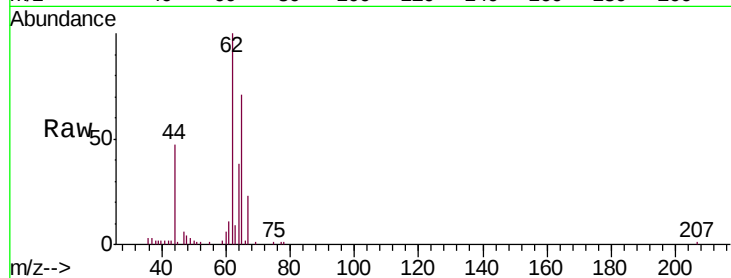
VSTD0.501

Tgt Ion: 62 Resp: 15722

Ion Ratio Lower Upper

62 100

64 37.7 22.5 41.9



#6

Bromomethane

Concen: 0.758 ug/L

RT: 1.88 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU035479.D

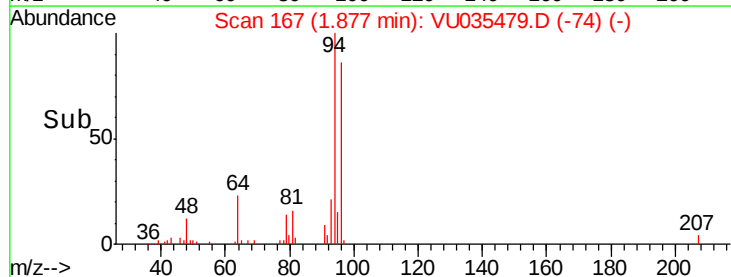
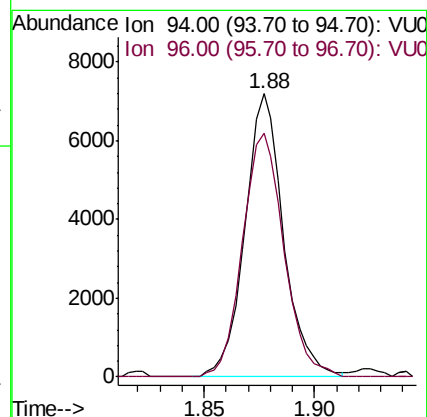
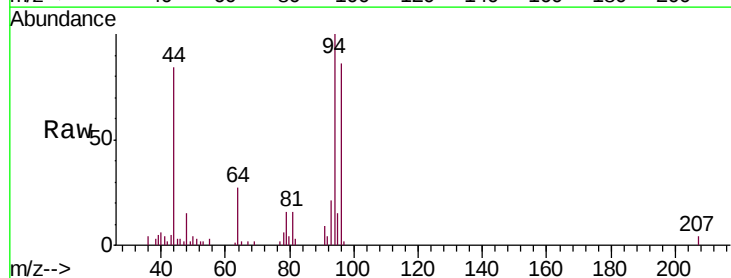
Acq: 25 Oct 2019 10:54

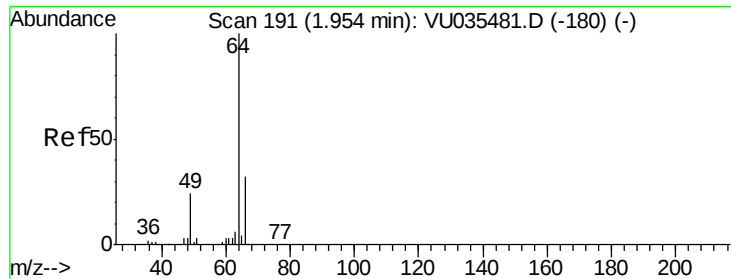
Tgt Ion: 94 Resp: 8760

Ion Ratio Lower Upper

94 100

96 86.2 66.3 123.1





#8

Chloroethane

Concen: 0.769 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU035479.D

Acq: 25 Oct 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

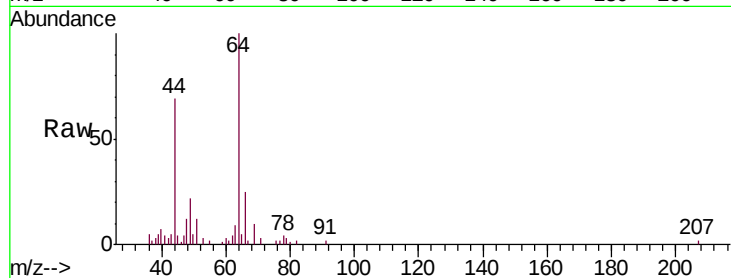
VSTD0.501

Tgt Ion: 64 Resp: 9864

Ion Ratio Lower Upper

64 100

66 25.0 21.8 40.6



Abundance Ion 64.10 (63.80 to 64.80): VU035481.D (-180) (-)

Ion 66.05 (65.75 to 66.75): VU035481.D (-180) (-)

1.95

8000

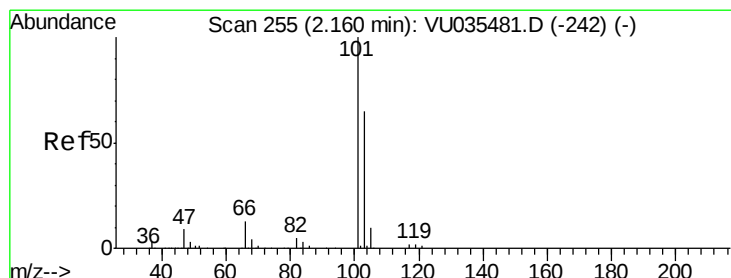
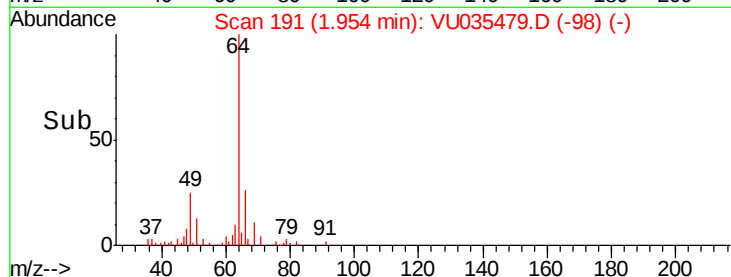
6000

4000

2000

0

Time--> 1.90 1.95 2.00



#9

Trichlorofluoromethane

Concen: 0.745 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU035479.D

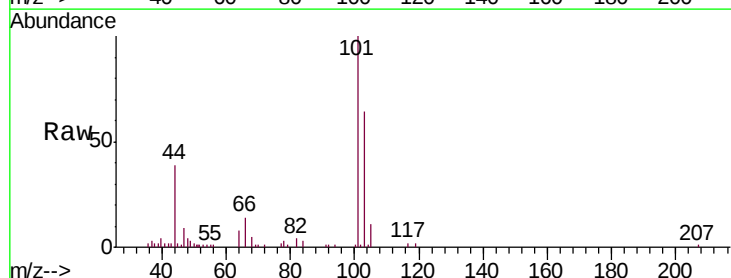
Acq: 25 Oct 2019 10:54

Tgt Ion: 101 Resp: 19349

Ion Ratio Lower Upper

101 100

103 65.8 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU035481.D (-242) (-)

Ion 103.00 (102.70 to 103.70): VU035481.D (-242) (-)

2.16

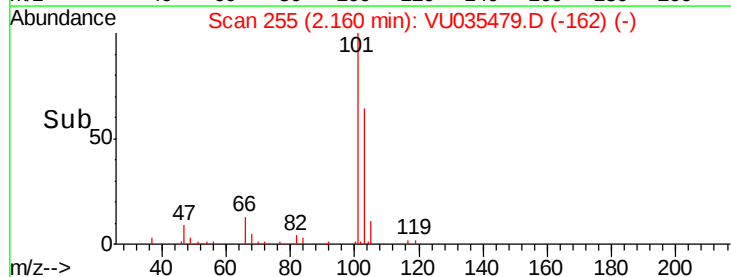
15000

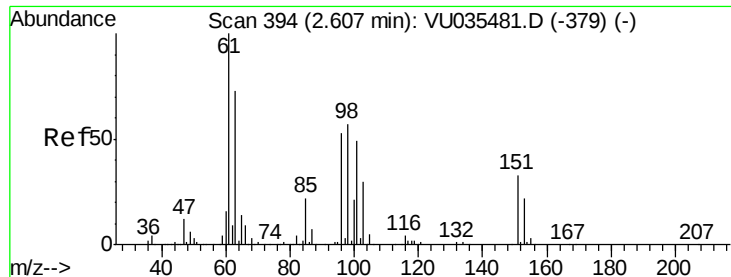
10000

5000

0

Time--> 2.10 2.15 2.20





#10

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

Concen: 0.722 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035479.D

Acq: 25 Oct 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.501

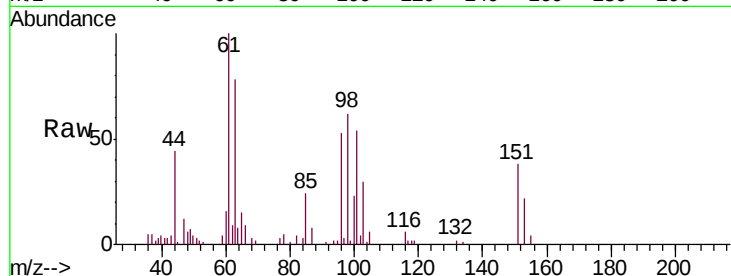
Tgt Ion:101 Resp: 10741

Ion Ratio Lower Upper

101 100

85 44.9 34.7 52.1

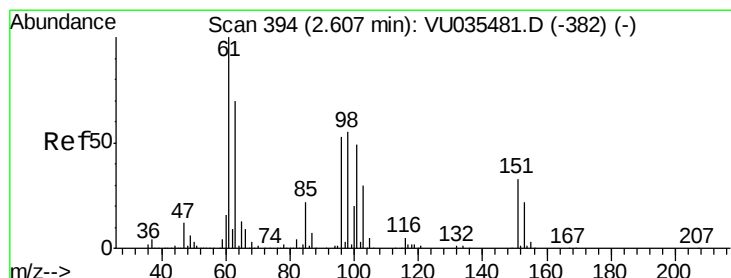
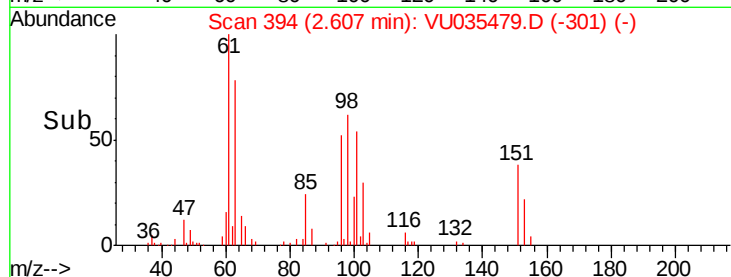
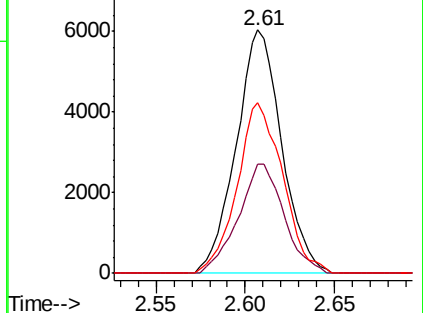
151 70.2 54.8 82.2



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: 0.715 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035479.D

Acq: 25 Oct 2019 10:54

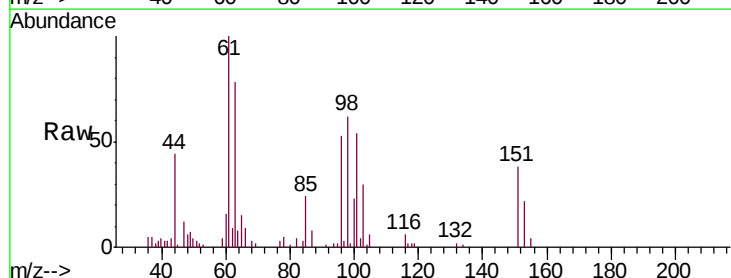
Tgt Ion: 96 Resp: 10202

Ion Ratio Lower Upper

96 100

61 189.5 131.9 244.9

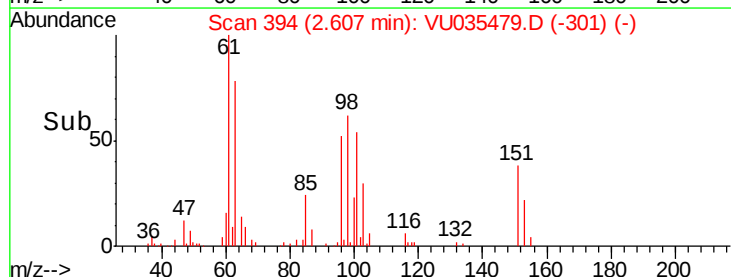
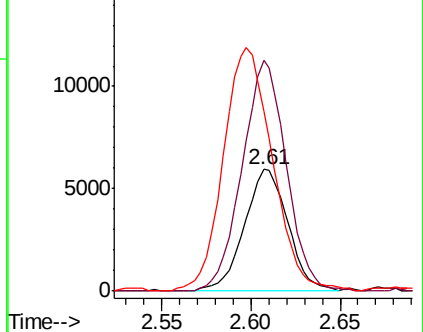
63 147.8 97.0 180.2

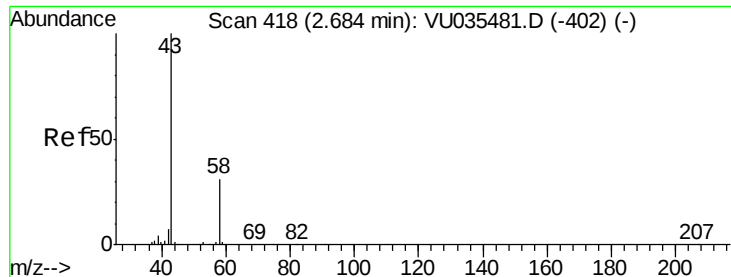


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 7.899 ug/L

RT: 2.69 min Scan# 419

Delta R.T. 0.00 min

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ClientSampleId :

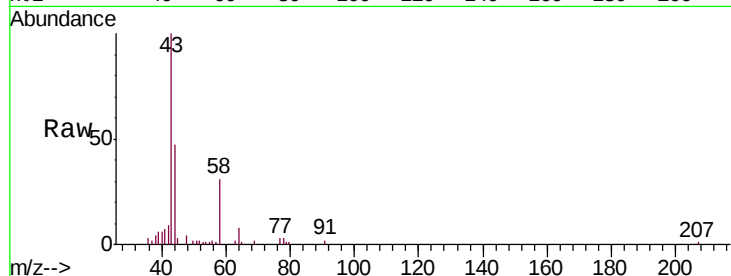
VSTD0.501

Tgt Ion: 43 Resp: 22003

Ion Ratio Lower Upper

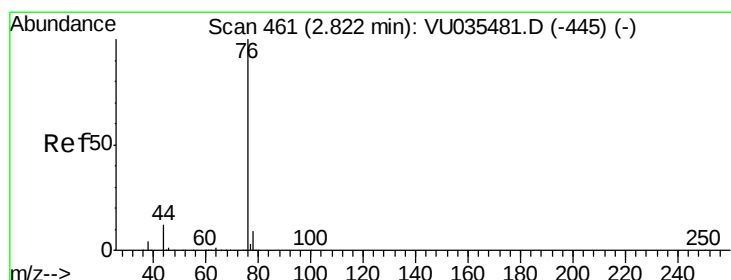
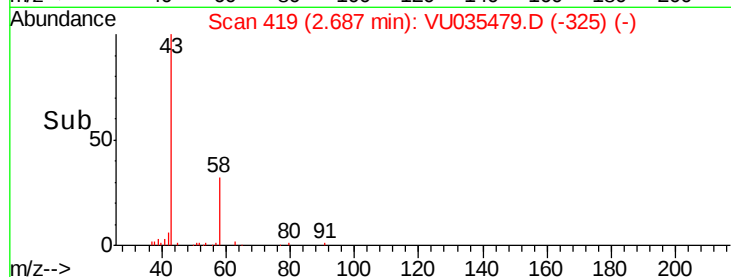
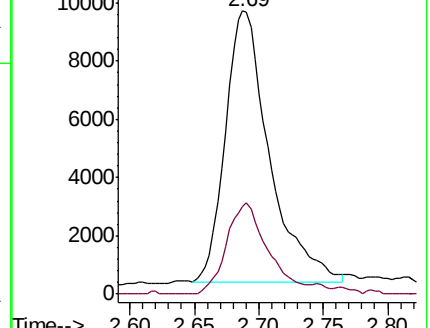
43 100

58 31.6 0.0 63.2



Abundance Ion 43.05 (42.75 to 43.75): VU035481.D (-402) (-)

Ion 58.05 (57.75 to 58.75): VU035481.D (-402) (-)



#14

Carbon disulfide

Concen: 0.775 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU035479.D

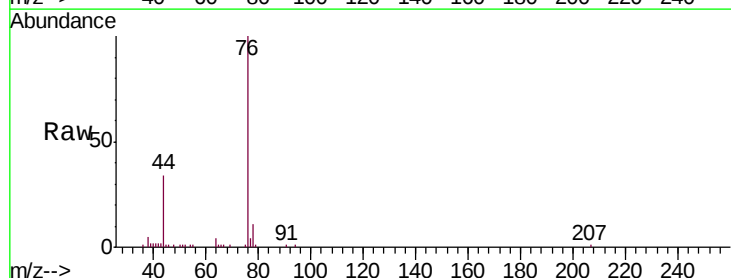
Acq: 25 Oct 2019 10:54

Tgt Ion: 76 Resp: 36047

Ion Ratio Lower Upper

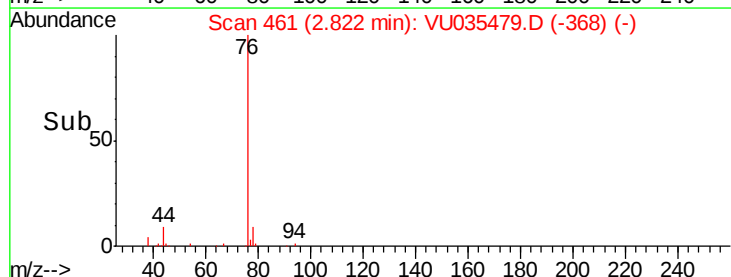
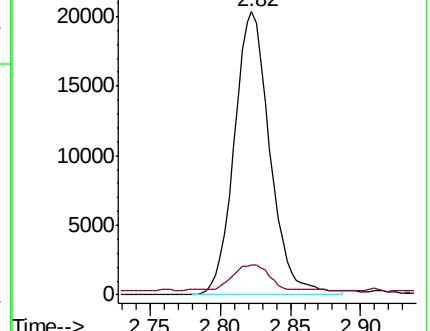
76 100

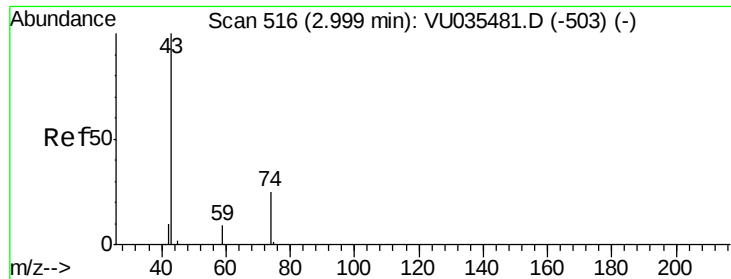
78 10.6 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VU035481.D (-445) (-)

Ion 78.00 (77.70 to 78.70): VU035481.D (-445) (-)





#15

Methyl Acetate

Concen: 0.693 ug/L

RT: 3.00 min Scan# 517

Delta R.T. 0.00 min

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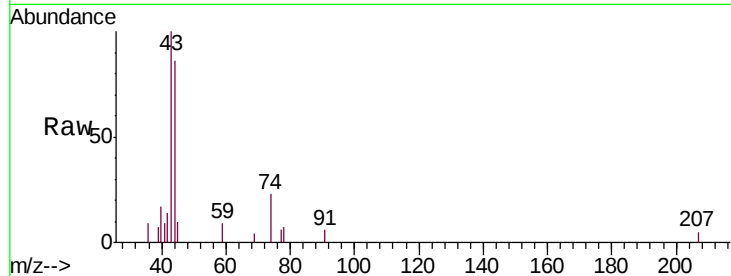
VSTD0.501

Tgt Ion: 43 Resp: 4741

Ion Ratio Lower Upper

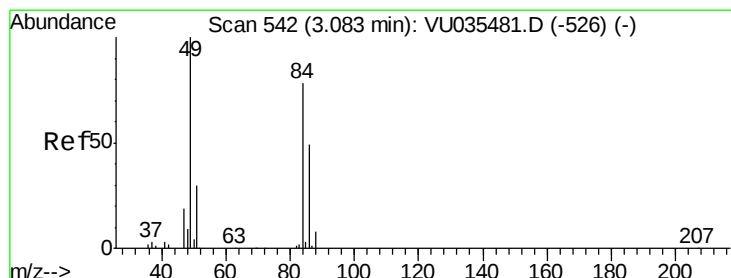
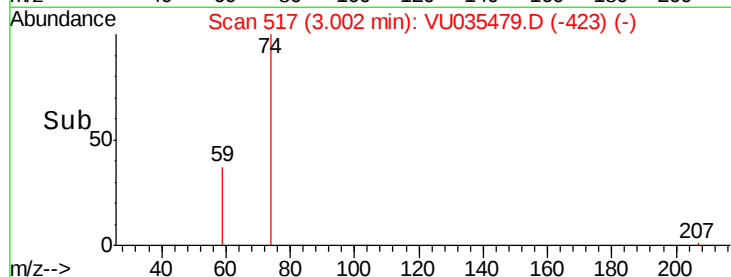
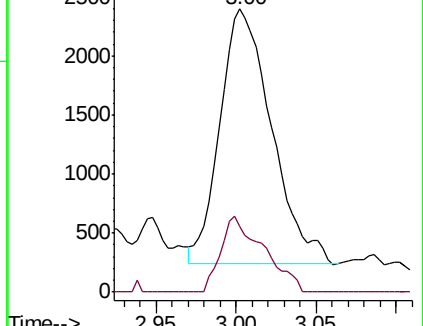
43 100

74 24.9 19.4 29.2



Abundance Ion 43.05 (42.75 to 43.75): VU035481.D (-503) (-)

Ion 74.05 (73.75 to 74.75): VU035481.D (-503) (-)



#16

Methylene chloride

Concen: 0.884 ug/L

RT: 3.09 min Scan# 543

Delta R.T. 0.00 min

Lab File: VU035479.D

Acq: 25 Oct 2019 10:54

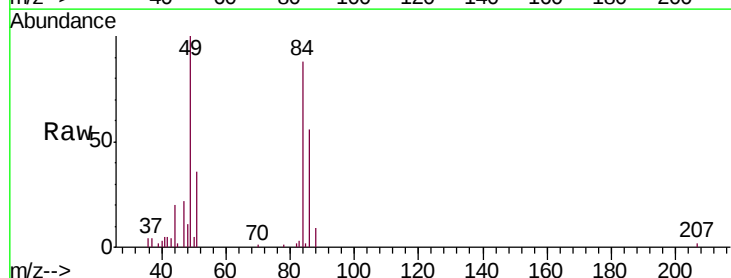
Tgt Ion: 84 Resp: 15412

Ion Ratio Lower Upper

84 100

86 63.6 43.7 81.1

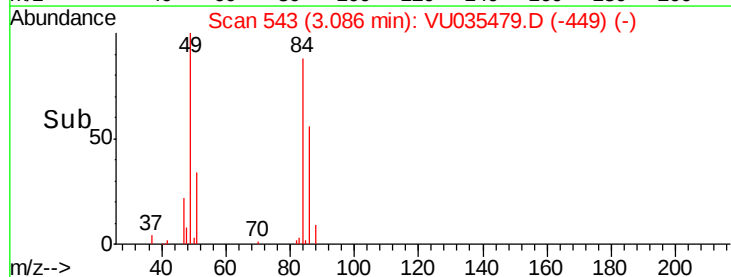
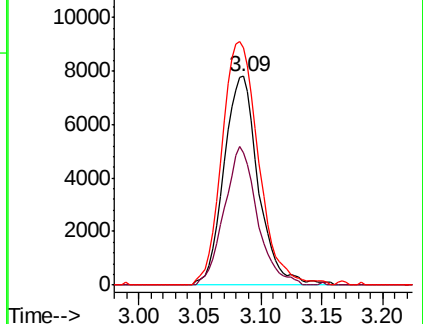
49 113.5 89.5 166.3

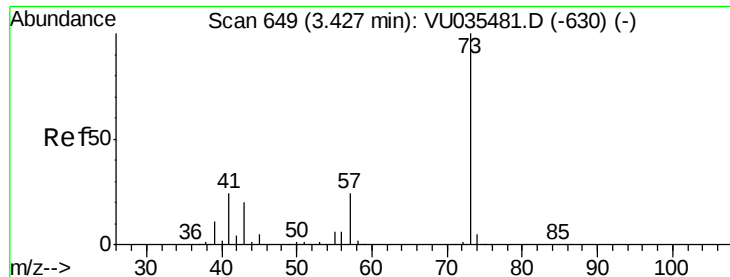


Abundance Ion 84.05 (83.75 to 84.75): VU035481.D (-526) (-)

Ion 86.00 (85.70 to 86.70): VU035481.D (-526) (-)

Ion 49.10 (48.80 to 49.80): VU035481.D (-526) (-)



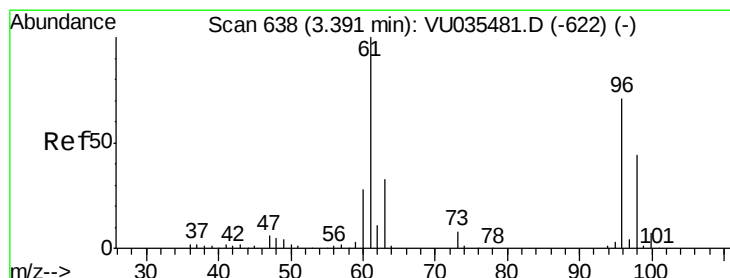
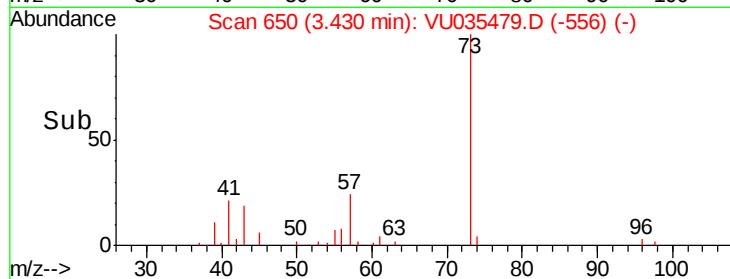
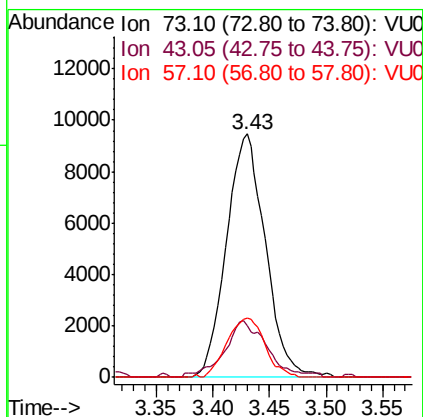
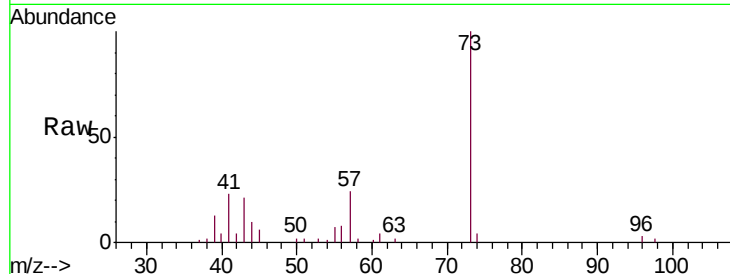


#17

Methyl tert-butyl Ether
 Concen: 0.611 ug/L
 RT: 3.43 min Scan# 650
 Delta R.T. 0.00 min
 Lab File: VU035479.D
 Acq: 25 Oct 2019 10:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.501

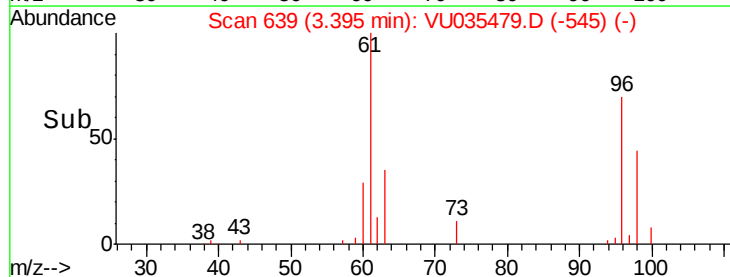
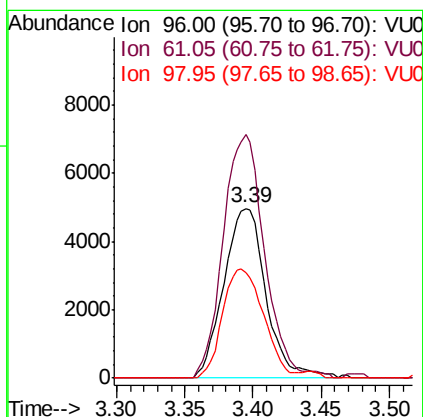
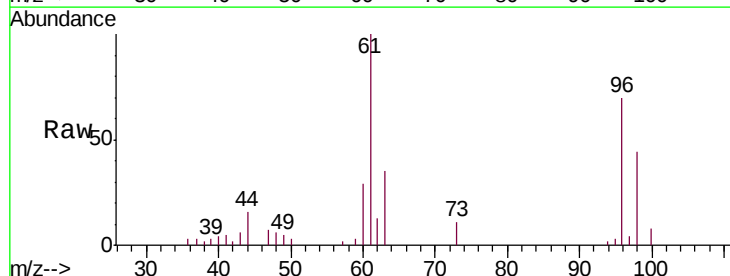
Tgt Ion: 73 Resp: 22680
 Ion Ratio Lower Upper
 73 100
 43 25.0 15.8 23.8#
 57 23.7 19.0 28.6

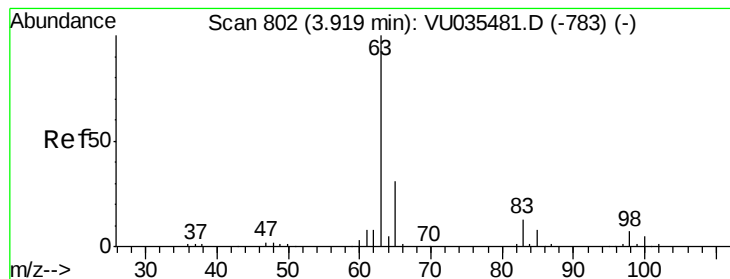


#18

trans-1,2-Dichloroethene
 Concen: 0.696 ug/L
 RT: 3.39 min Scan# 639
 Delta R.T. 0.00 min
 Lab File: VU035479.D
 Acq: 25 Oct 2019 10:54

Tgt Ion: 96 Resp: 10689
 Ion Ratio Lower Upper
 96 100
 61 143.3 99.0 184.0
 98 62.4 43.8 81.4





#19

1,1-Dichloroethane

Concen: 0.750 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU035479.D

Acq: 25 Oct 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.501

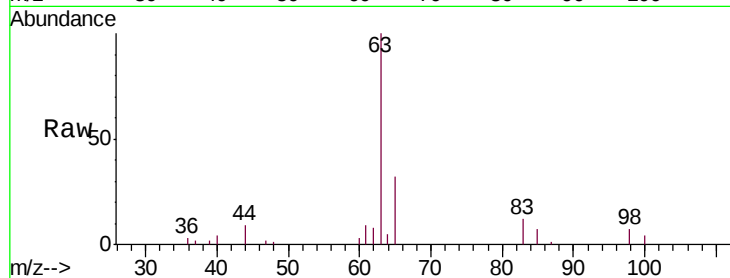
Tgt Ion: 63 Resp: 21401

Ion Ratio Lower Upper

63 100

65 32.1 22.0 41.0

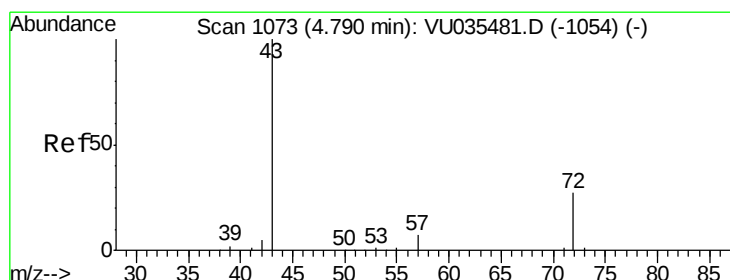
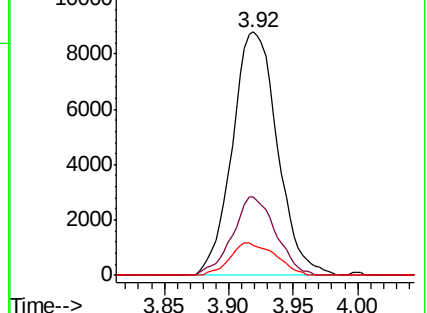
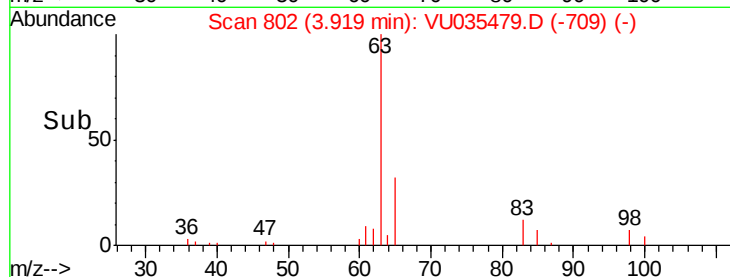
83 12.2 9.2 17.2



Abundance Ion 63.10 (62.80 to 63.80): VU035479.D (-980) (-)

Ion 65.10 (64.80 to 65.80): VU035479.D (-980) (-)

Ion 83.05 (82.75 to 83.75): VU035479.D (-980) (-)



#21

2-Butanone

Concen: 6.273 ug/L

RT: 4.80 min Scan# 1075

Delta R.T. 0.01 min

Lab File: VU035479.D

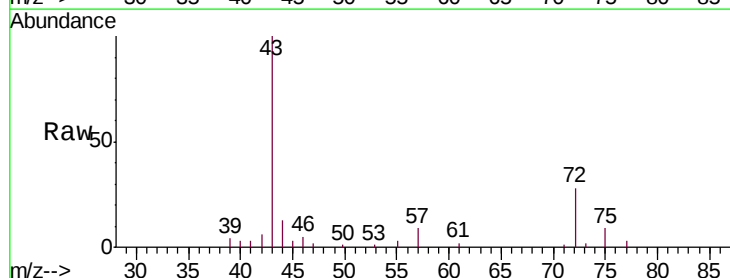
Acq: 25 Oct 2019 10:54

Tgt Ion: 43 Resp: 27863

Ion Ratio Lower Upper

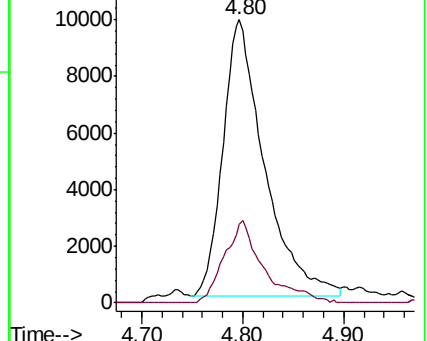
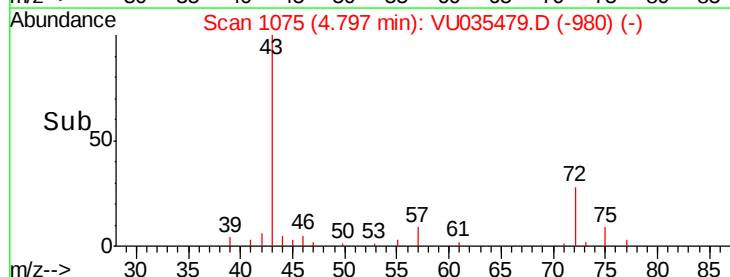
43 100

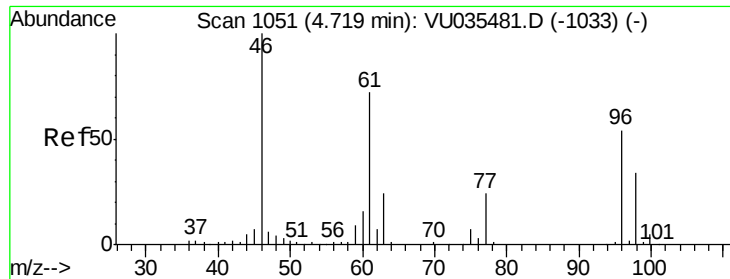
72 28.5 12.9 38.7



Abundance Ion 43.05 (42.75 to 43.75): VU035479.D (-980) (-)

Ion 72.10 (71.80 to 72.80): VU035479.D (-980) (-)





#22

cis-1,2-Dichloroethene

Concen: 0.670 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU035479.D

Acq: 25 Oct 2019 10:54

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.501

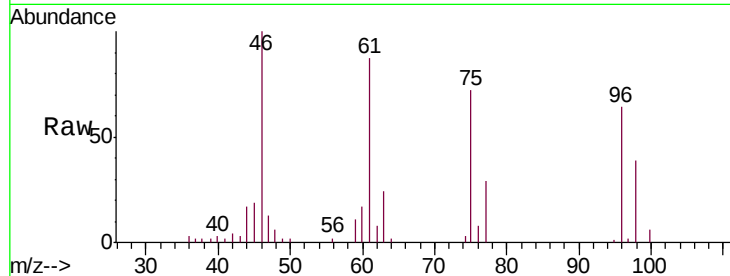
Tgt Ion: 96 Resp: 11297

Ion Ratio Lower Upper

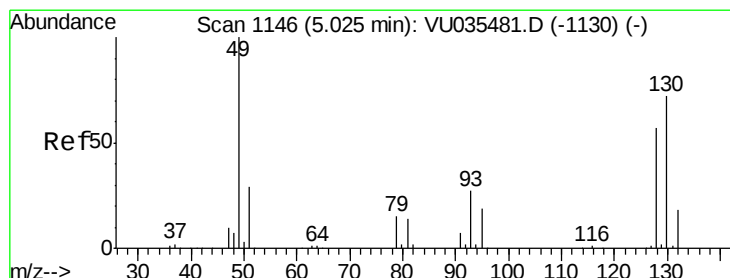
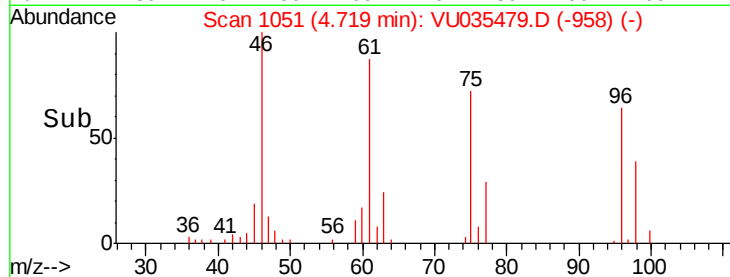
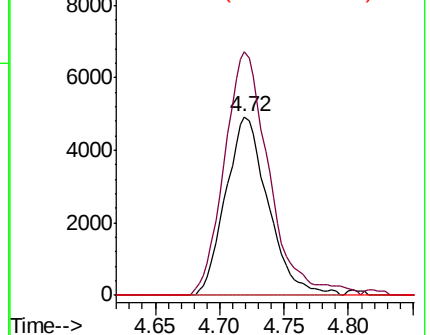
96 100

61 136.3 93.6 173.8

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 0.768 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VU035479.D

Acq: 25 Oct 2019 10:54

Tgt Ion: 128 Resp: 5617

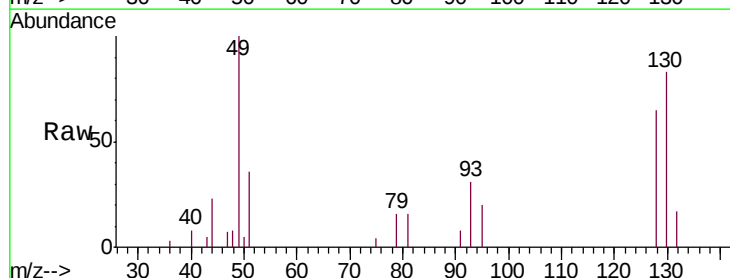
Ion Ratio Lower Upper

128 100

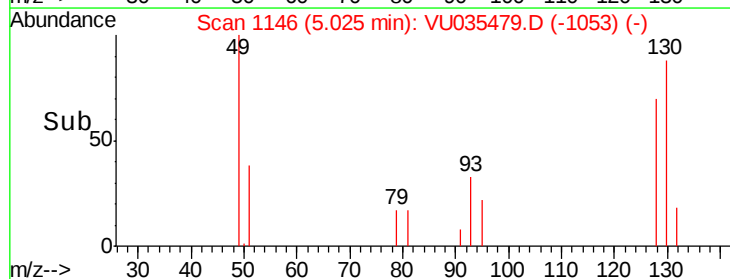
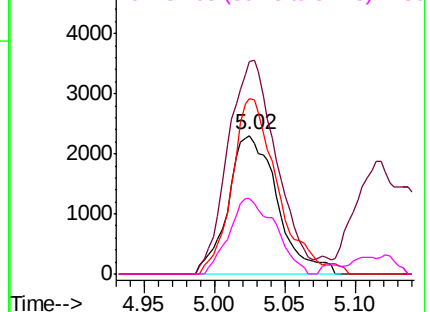
49 153.0 122.2 226.9

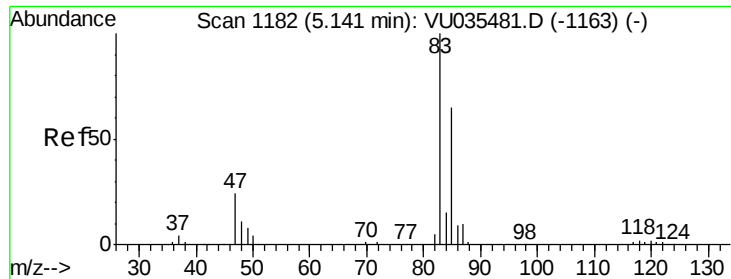
130 126.7 87.9 163.3

51 54.4 41.0 61.6



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VU0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VU0

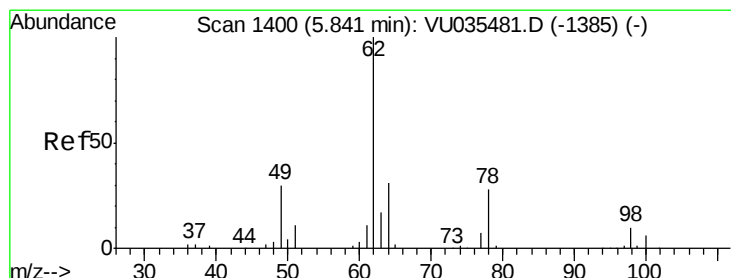
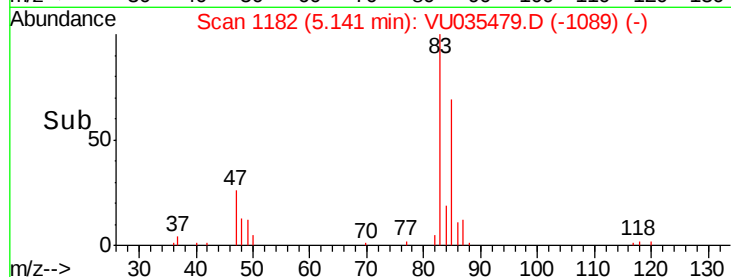
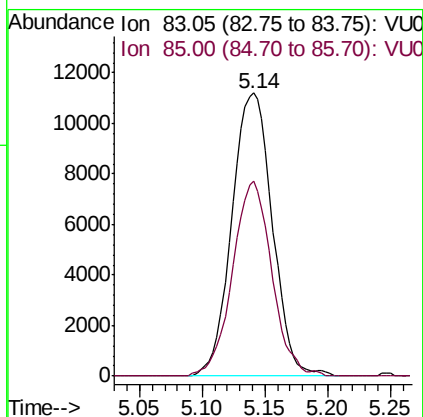
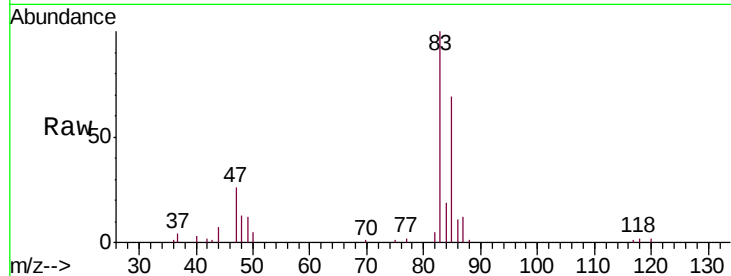




#25
Chloroform
Concen: 0.808 ug/L
RT: 5.14 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU035479.D
Acq: 25 Oct 2019 10:54

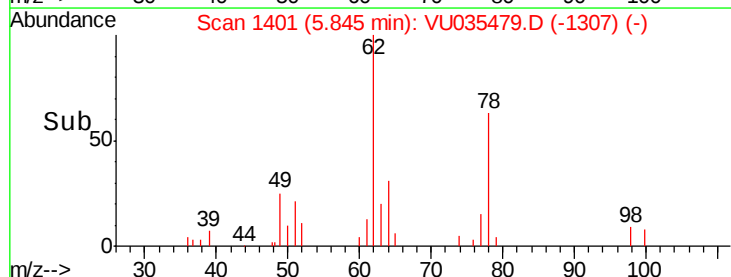
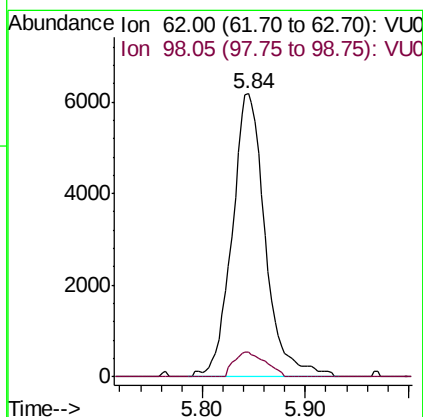
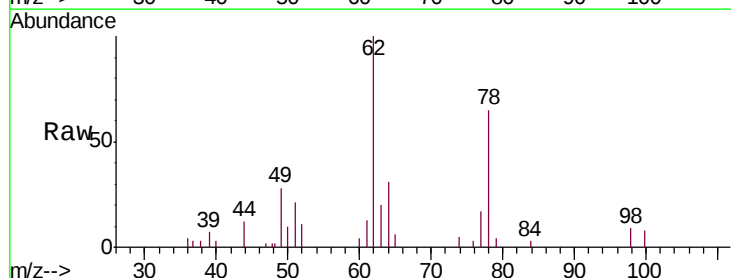
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.501

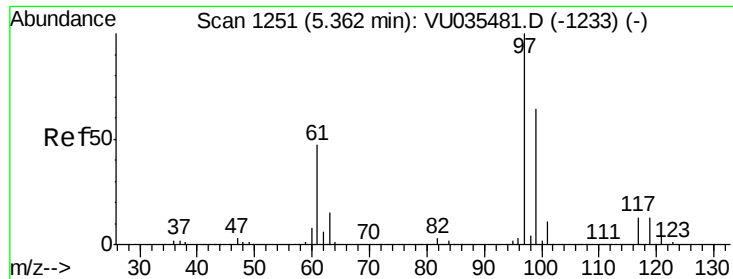
Tgt Ion: 83 Resp: 25127
Ion Ratio Lower Upper
83 100
85 69.0 45.7 84.9



#27
1,2-Dichloroethane
Concen: 0.736 ug/L
RT: 5.84 min Scan# 1401
Delta R.T. 0.00 min
Lab File: VU035479.D
Acq: 25 Oct 2019 10:54

Tgt Ion: 62 Resp: 13859
Ion Ratio Lower Upper
62 100
98 8.7 7.6 11.4

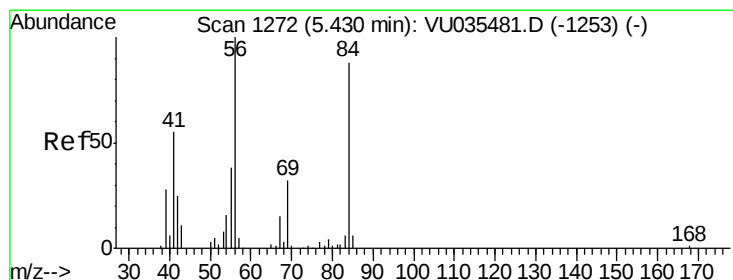
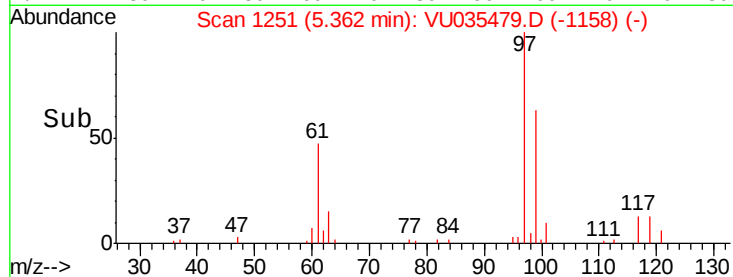
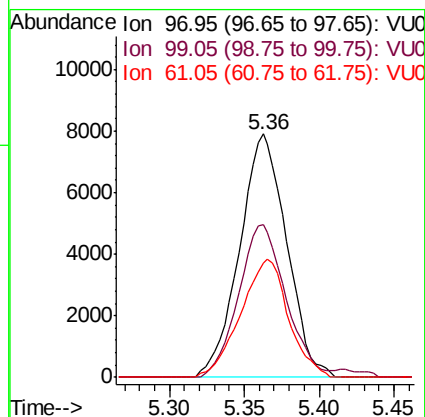
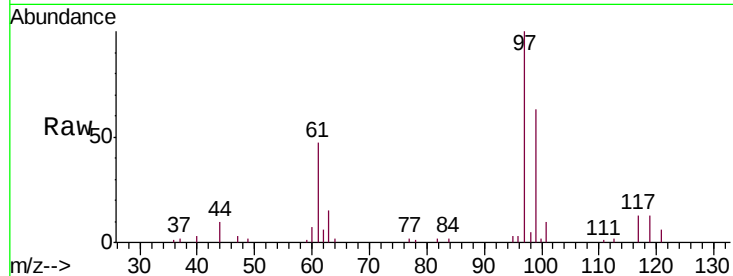




#29
 1,1,1-Trichloroethane
 Concen: 0.631 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU035479.D
 Acq: 25 Oct 2019 10:54

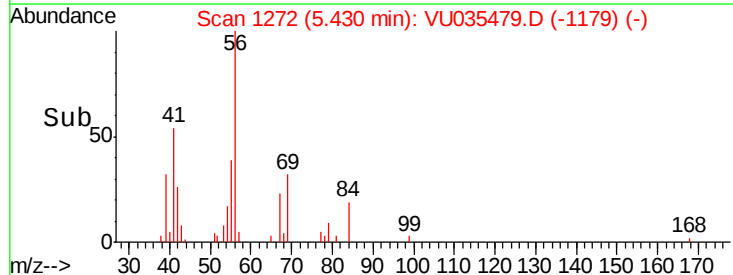
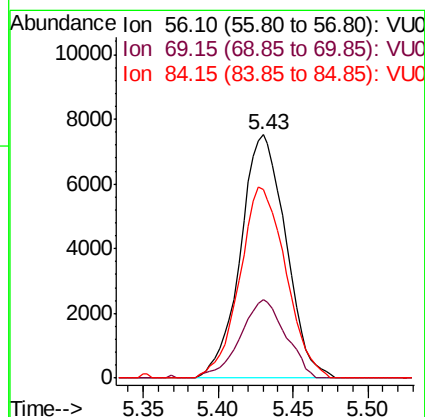
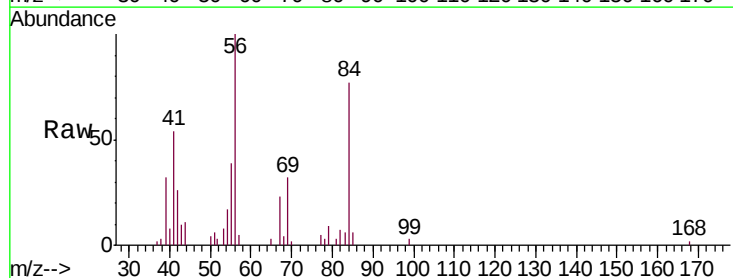
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.501

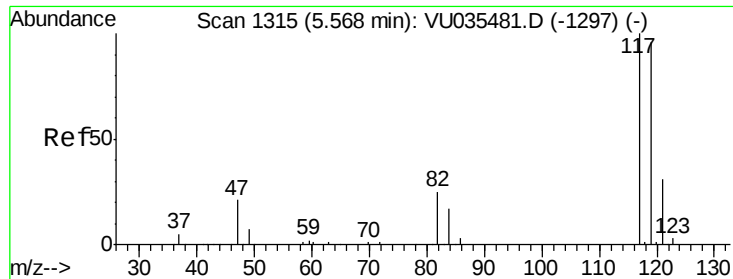
Tgt Ion: 97 Resp: 17256
 Ion Ratio Lower Upper
 97 100
 99 63.1 51.1 76.7
 61 49.5 37.9 56.9



#30
 Cyclohexane
 Concen: 0.547 ug/L
 RT: 5.43 min Scan# 1272
 Delta R.T. 0.00 min
 Lab File: VU035479.D
 Acq: 25 Oct 2019 10:54

Tgt Ion: 56 Resp: 15872
 Ion Ratio Lower Upper
 56 100
 69 32.2 23.9 35.9
 84 79.7 69.4 104.2





#31

Carbon tetrachloride

Concen: 0.612 ug/L

RT: 5.57 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VU035479.D

Acq: 25 Oct 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

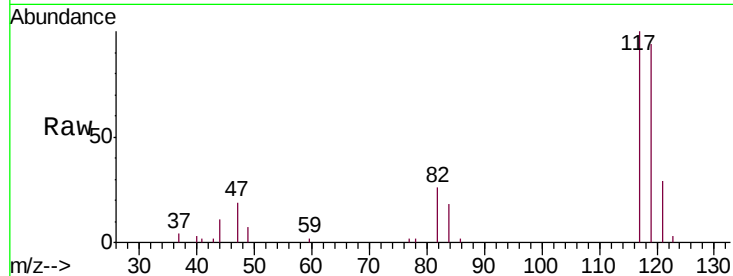
VSTD0.501

Tgt Ion:117 Resp: 15106

Ion Ratio Lower Upper

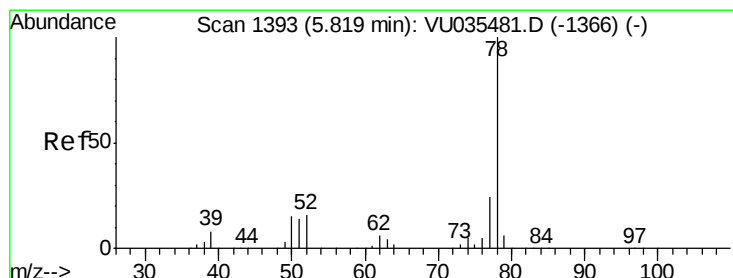
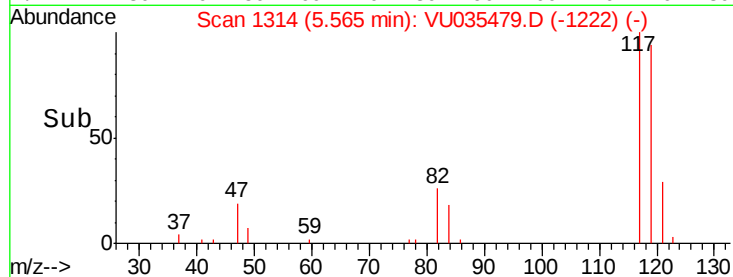
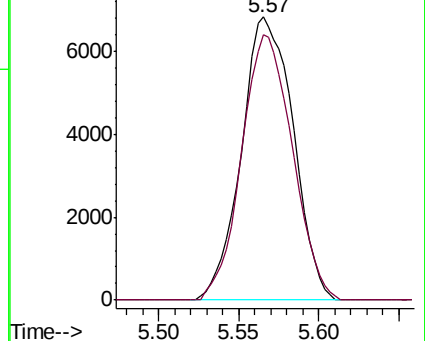
117 100

119 92.0 76.3 114.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.629 ug/L

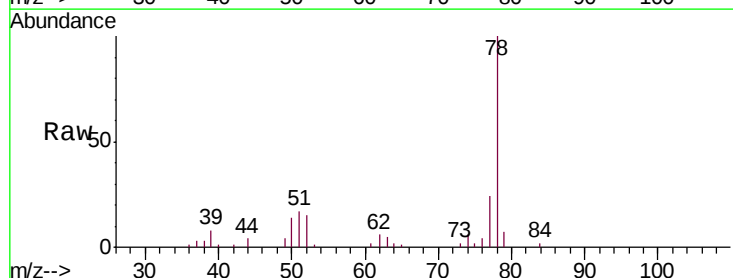
RT: 5.82 min Scan# 1393

Delta R.T. 0.00 min

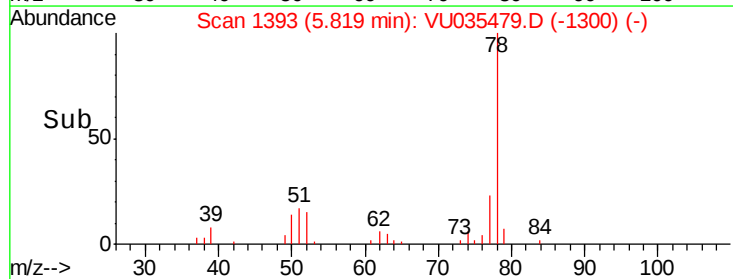
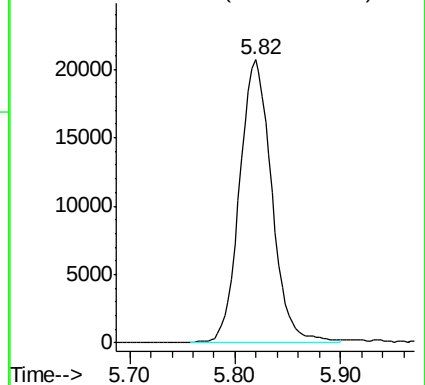
Lab File: VU035479.D

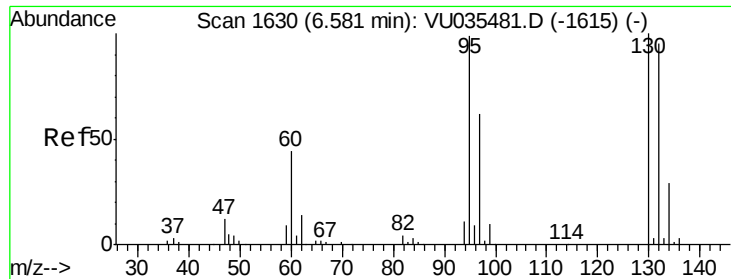
Acq: 25 Oct 2019 10:54

Tgt Ion: 78 Resp: 43948



Abundance Ion 78.10 (77.80 to 78.80): VU0

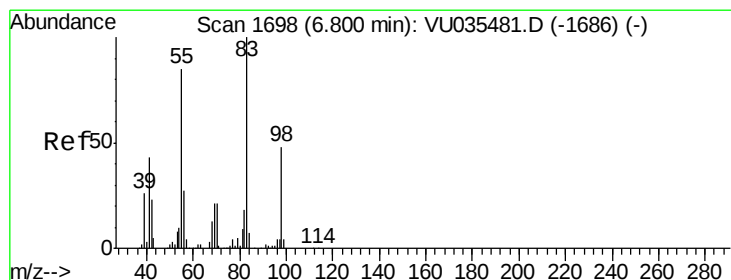
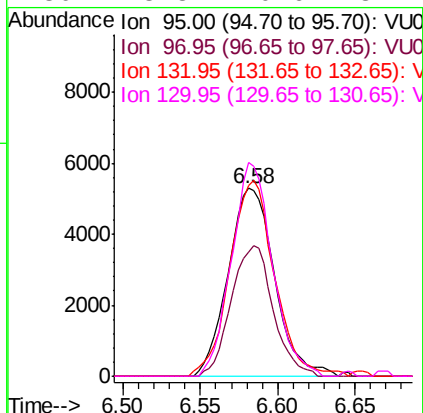
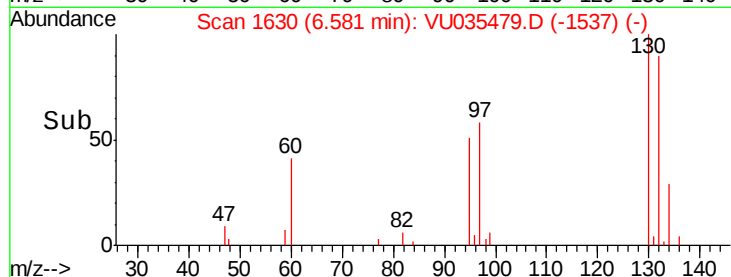
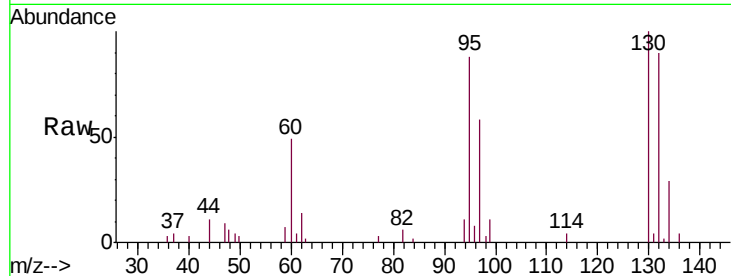




#34
 Trichloroethene
 Concen: 0.602 ug/L
 RT: 6.58 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VU035479.D
 Acq: 25 Oct 2019 10:54

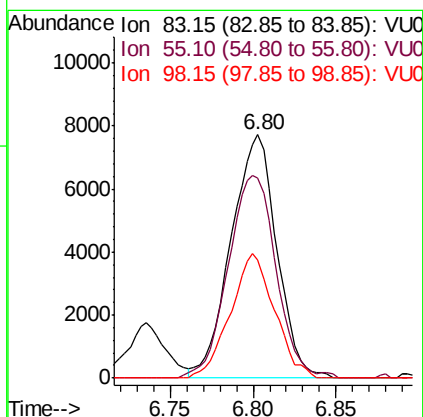
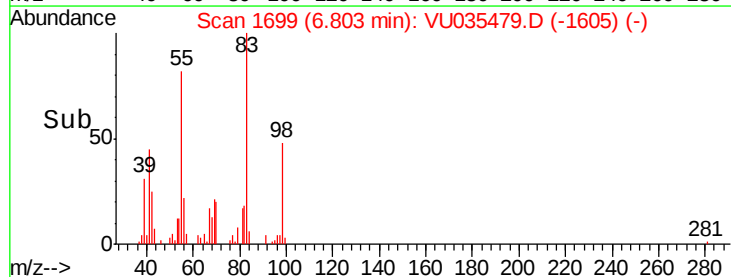
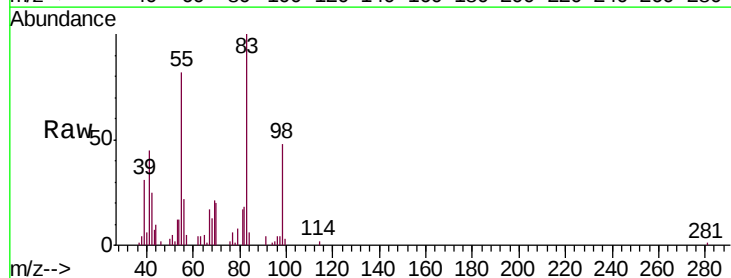
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.501

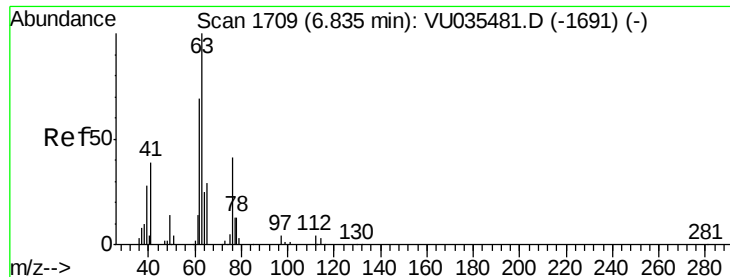
Tgt Ion: 95 Resp: 11053
 Ion Ratio Lower Upper
 95 100
 97 66.1 43.8 81.4
 132 102.0 67.3 124.9
 130 113.8 70.6 131.2



#35
 Methylcyclohexane
 Concen: 0.493 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VU035479.D
 Acq: 25 Oct 2019 10:54

Tgt Ion: 83 Resp: 14832
 Ion Ratio Lower Upper
 83 100
 55 87.2 67.3 100.9
 98 49.3 39.0 58.6

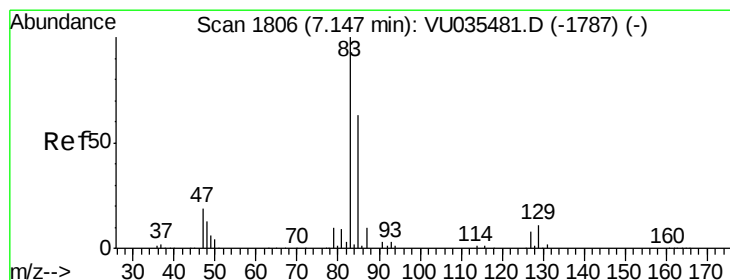
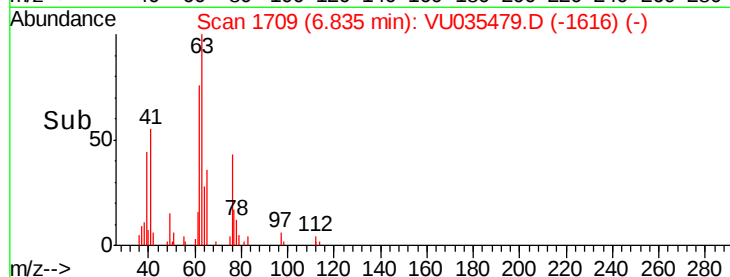
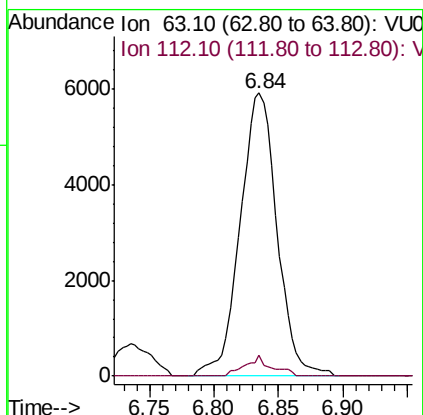
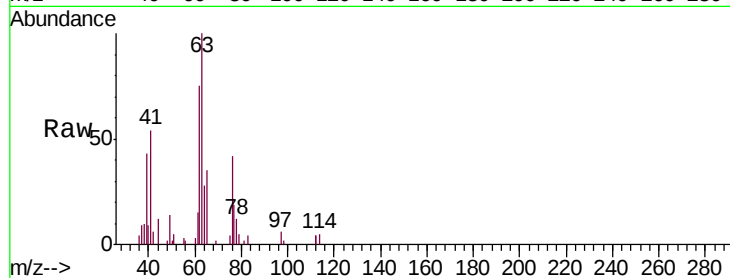




#37
 1,2-Dichloropropane
 Concen: 0.662 ug/L
 RT: 6.84 min Scan# 1709
 Delta R.T. 0.00 min
 Lab File: VU035479.D
 Acq: 25 Oct 2019 10:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.501

Tgt Ion: 63 Resp: 11809
 Ion Ratio Lower Upper
 63 100
 112 5.1 3.6 5.4



#38
 Bromodichloromethane
 Concen: 0.619 ug/L
 RT: 7.15 min Scan# 1806
 Delta R.T. 0.00 min
 Lab File: VU035479.D
 Acq: 25 Oct 2019 10:54

Tgt Ion: 83 Resp: 14575
 Ion Ratio Lower Upper
 83 100
 85 62.4 44.2 82.2
 127 8.6 6.6 9.8

