

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091318\
 Data File : VU026719.D
 Acq On : 12 Sep 2018 22:04
 Operator : MD/SY
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

Quant Time: Sep 13 03:42:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Sep 13 03:38:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	201549	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	190612	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	94196	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	60026	39.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	79.92%
7) Chloroethane-d5	1.68	69	52713	43.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.10%
11) 1,1-Dichloroethene-d2	2.27	63	117333	43.65	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.30%
21) 2-Butanone-d5	4.18	46	108509	116.09	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	116.09%
24) Chloroform-d	4.65	84	121812	48.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.56%
26) 1,2-Dichloroethane-d4	5.31	65	77618	47.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.98%
32) Benzene-d6	5.34	84	234135	47.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.92%
36) 1,2-Dichloropropane-d6	6.33	67	81177	49.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.06%
41) Toluene-d8	7.57	98	221865	47.93	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.86%
43) trans-1,3-Dichloropropene-	7.85	79	35634	46.30	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.60%
47) 2-Hexanone-d5	8.31	63	81173	120.17	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	120.17%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	117293	51.75	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.50%
64) 1,2-Dichlorobenzene-d4	11.86	152	90551	48.22	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.44%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	64012	50.455	ug/L 100
3) Chloromethane	1.33	50	81179	48.676	ug/L 100
5) Vinyl chloride	1.40	62	87654	50.864	ug/L 99
6) Bromomethane	1.62	94	37041	36.884	ug/L 97
8) Chloroethane	1.69	64	53956	50.484	ug/L 99
9) Trichlorofluoromethane	1.88	101	112527	51.784	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	63723	51.493	ug/L 99
12) 1,1-Dichloroethene	2.28	96	60882	51.229	ug/L 98
13) Acetone	2.32	43	78547	73.785	ug/L 100
14) Carbon disulfide	2.48	76	188051	48.720	ug/L 99
15) Methyl Acetate	2.62	43	88207	58.081	ug/L 98
16) Methylene chloride	2.70	84	74231	52.927	ug/L 97
17) trans-1,2-Dichloroethene	2.98	96	63404	50.351	ug/L 97
18) Methyl tert-butyl Ether	3.00	73	214013	55.155	ug/L 99
19) 1,1-Dichloroethane	3.45	63	131099	53.682	ug/L 100
20) cis-1,2-Dichloroethene	4.23	96	75097	52.946	ug/L 98
22) 2-Butanone	4.27	43	123892	101.646	ug/L 99

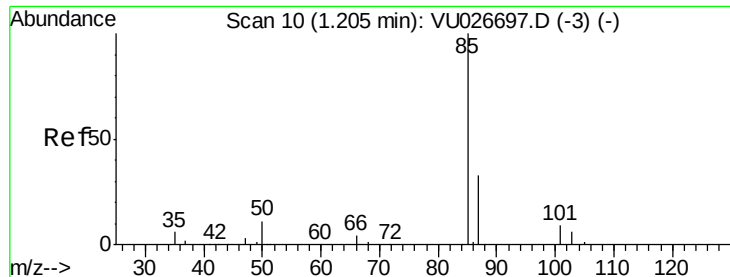
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091318\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	38131	52.562	ug/L	96
25) Chloroform	4.67	83	131206	53.452	ug/L	99
27) 1,2-Dichloroethane	5.41	62	103704	53.205	ug/L	99
29) Cyclohexane	5.00	56	111993	53.639	ug/L	98
30) 1,1,1-Trichloroethane	4.92	97	108530	53.746	ug/L	99
31) Carbon tetrachloride	5.14	117	98117	53.756	ug/L	99
33) Benzene	5.39	78	288959	54.134	ug/L	100
34) Trichloroethene	6.19	95	70299	52.987	ug/L	98
35) Methylcyclohexane	6.42	83	114009	53.684	ug/L	100
37) 1,2-Dichloropropane	6.43	63	82385	55.248	ug/L	99
38) Bromodichloromethane	6.76	83	99384	54.384	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	114174	51.742	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	235080	123.586	ug/L	100
42) Toluene	7.64	91	303277	54.817	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	105473	51.380	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	72450	54.773	ug/L	99
46) Tetrachloroethene	8.23	164	58042	52.054	ug/L	100
48) 2-Hexanone	8.37	43	187425	116.707	ug/L	99
49) Dibromochloromethane	8.48	129	81761	53.478	ug/L	98
50) 1,2-Dibromoethane	8.59	107	78656	55.588	ug/L	99
51) Chlorobenzene	9.12	112	194682	53.592	ug/L	100
52) Ethylbenzene	9.25	91	327091	54.667	ug/L	97
53) m,p-Xylene	9.38	106	124724	55.284	ug/L	99
54) o-xylene	9.78	106	123278	55.058	ug/L	96
55) Styrene	9.79	104	211103	55.736	ug/L	98
56) Isopropylbenzene	10.17	105	317154	55.604	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	127310	55.558	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	100383	56.895	ug/L	99
61) Bromoform	9.96	173	63354	54.598	ug/L	98
62) 1,3-Dichlorobenzene	11.42	146	145649	53.851	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	151430	52.851	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	157214	54.999	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	27237	58.979	ug/L	98
67) 1,3,5-Trichlorobenzene	12.89	180	114114	53.190	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	99995	53.625	ug/L	99
69) Naphthalene	13.75	128	341237	59.720	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	110464	54.689	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 50.455 ug/L

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

Instrument :

MSVOA_U

ClientSampleId :

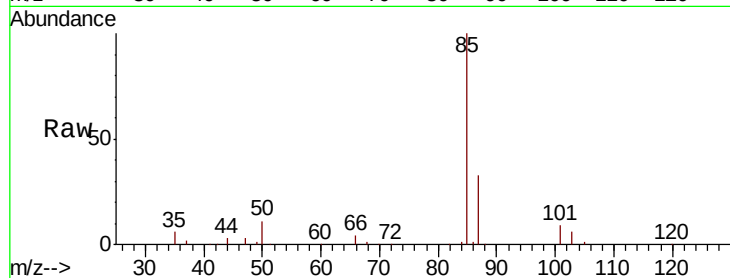
VSTD05059

Tgt Ion: 85 Resp: 64012

Ion Ratio Lower Upper

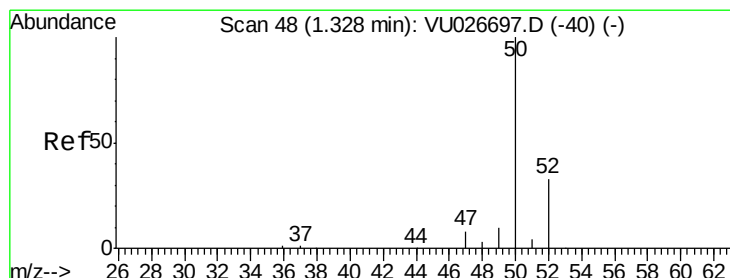
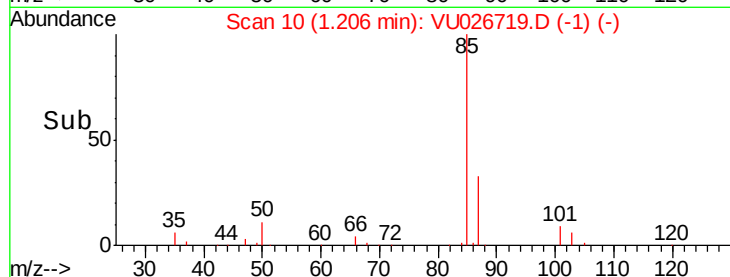
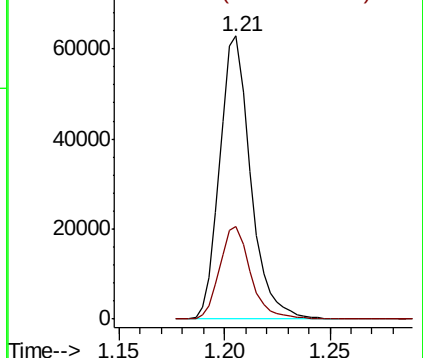
85 100

87 32.7 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 48.676 ug/L

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU026719.D

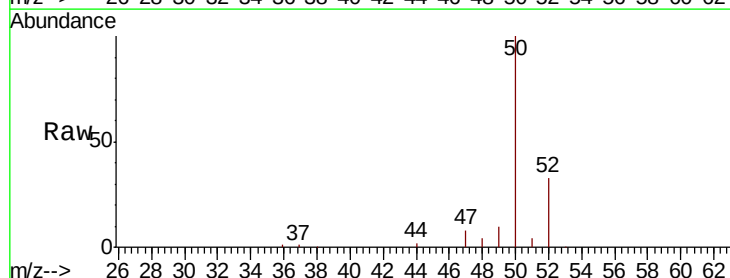
Acq: 12 Sep 2018 22:04

Tgt Ion: 50 Resp: 81179

Ion Ratio Lower Upper

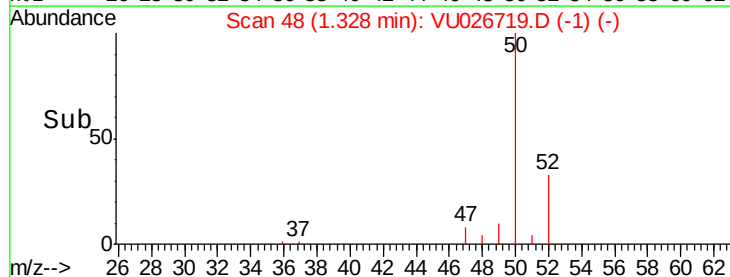
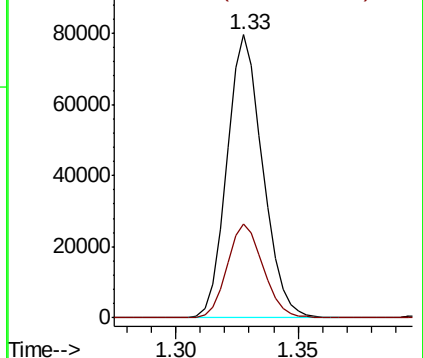
50 100

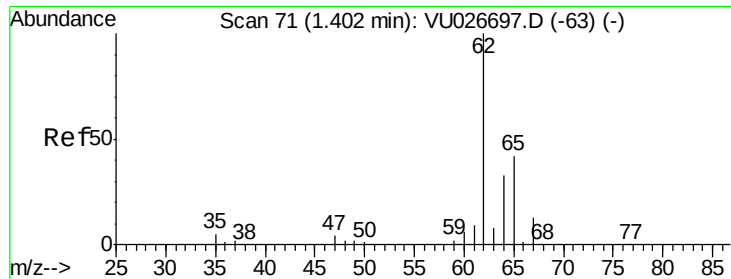
52 33.1 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 50.864 ug/L

RT: 1.40 min Scan# 70

Delta R.T. -0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

Instrument :

MSVOA_U

ClientSampleId :

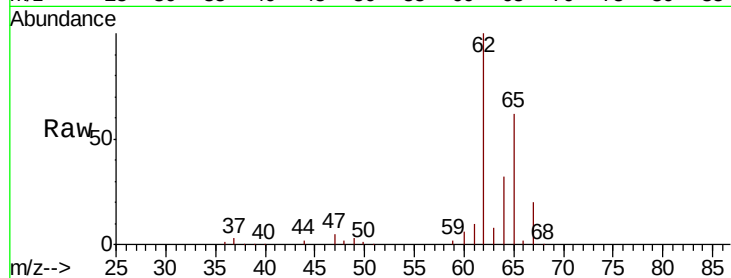
VSTD05059

Tgt Ion: 62 Resp: 87654

Ion Ratio Lower Upper

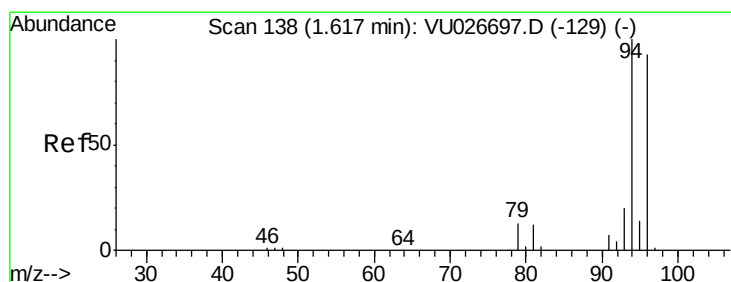
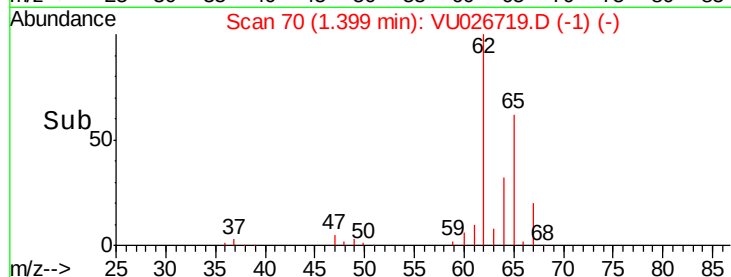
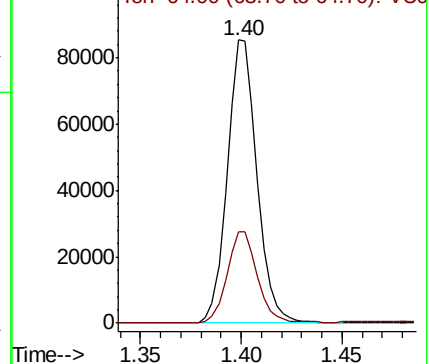
62 100

64 32.3 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 36.884 ug/L

RT: 1.62 min Scan# 139

Delta R.T. -0.00 min

Lab File: VU026719.D

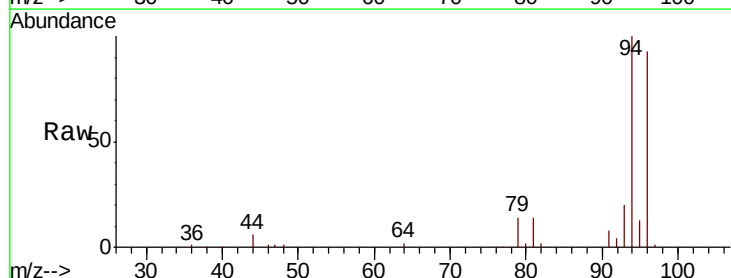
Acq: 12 Sep 2018 22:04

Tgt Ion: 94 Resp: 37041

Ion Ratio Lower Upper

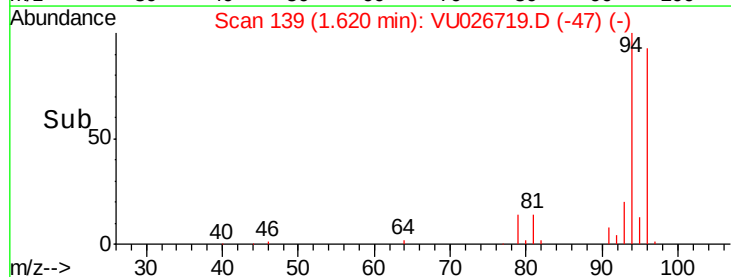
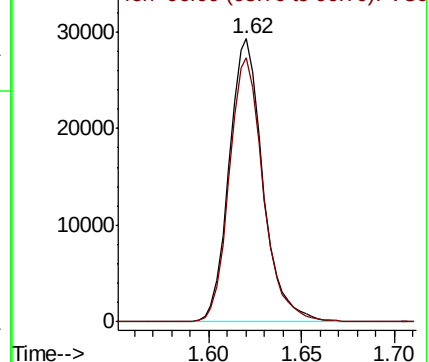
94 100

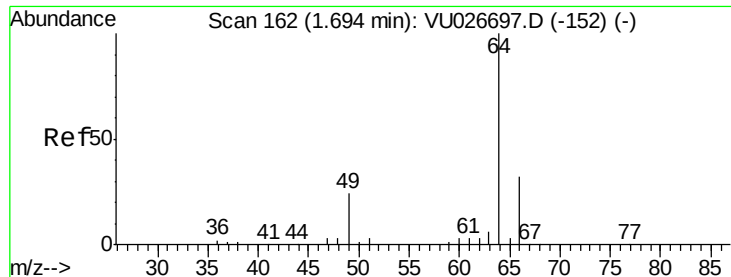
96 93.4 63.6 118.0



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 50.484 ug/L

RT: 1.69 min Scan# 162

Delta R.T. -0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

Instrument :

MSVOA_U

ClientSampleId :

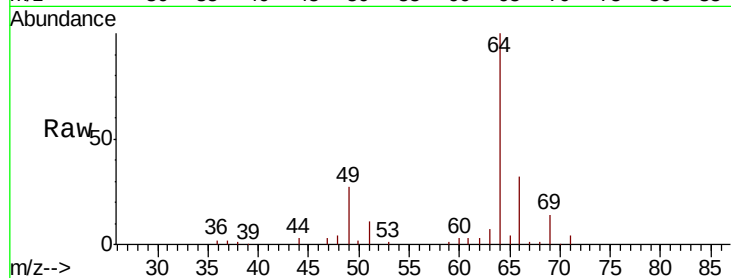
VSTD05059

Tgt Ion: 64 Resp: 53956

Ion Ratio Lower Upper

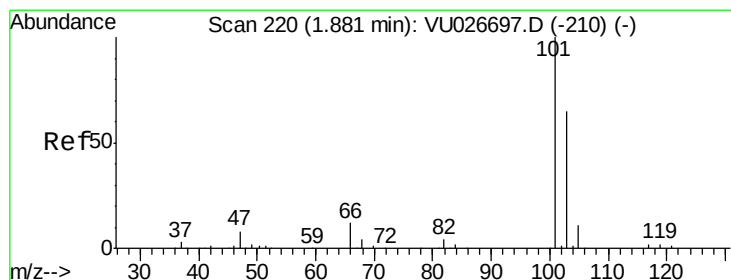
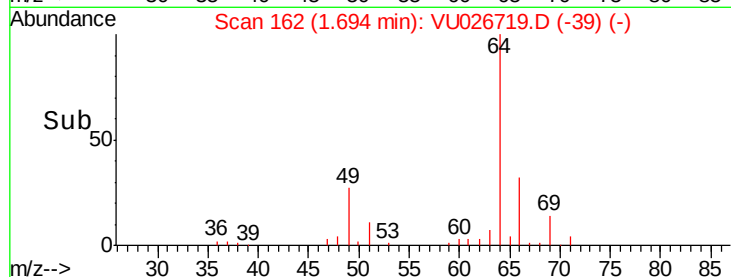
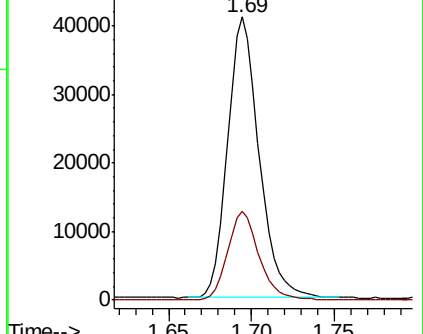
64 100

66 31.6 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VU026719.D (-152) (-)

Ion 66.00 (65.70 to 66.70): VU026719.D (-152) (-)



#9

Trichlorofluoromethane

Concen: 51.784 ug/L

RT: 1.88 min Scan# 221

Delta R.T. -0.00 min

Lab File: VU026719.D

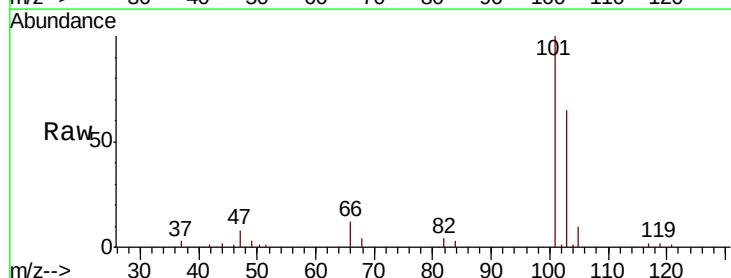
Acq: 12 Sep 2018 22:04

Tgt Ion: 101 Resp: 112527

Ion Ratio Lower Upper

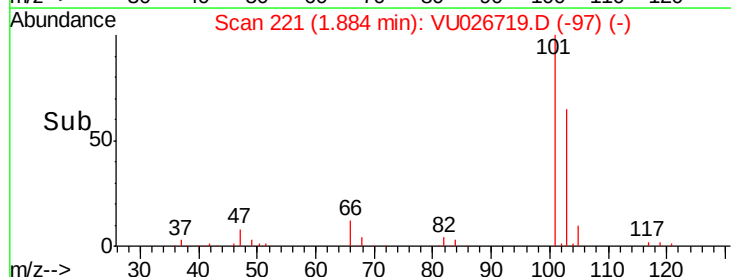
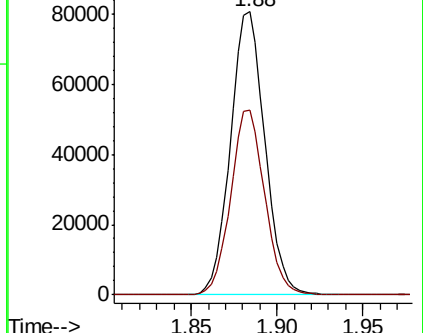
101 100

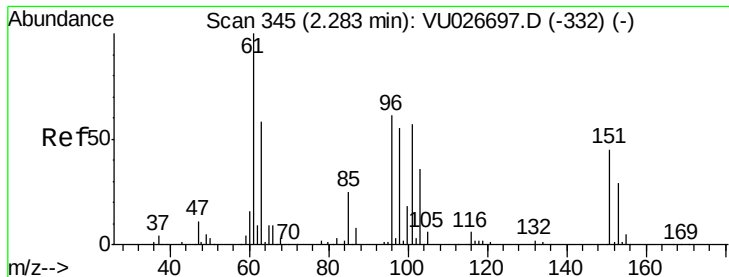
103 64.5 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): VU026719.D (-210) (-)

Ion 103.00 (102.70 to 103.70): VU026719.D (-210) (-)





#10

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

Concen: 51.493 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

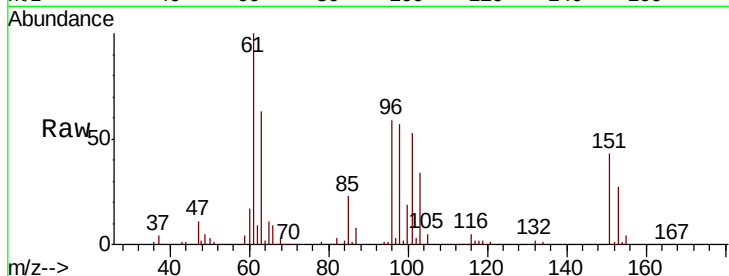
Tgt Ion: 101 Resp: 63723

Ion Ratio Lower Upper

101 100

85 42.9 34.1 51.1

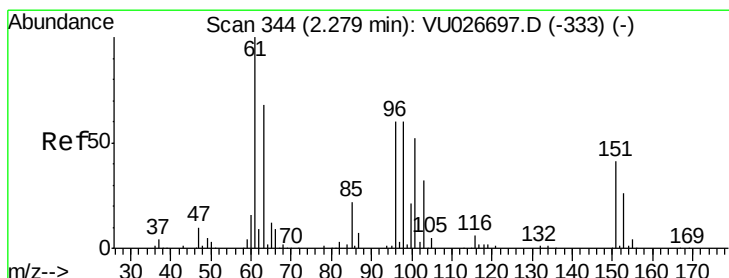
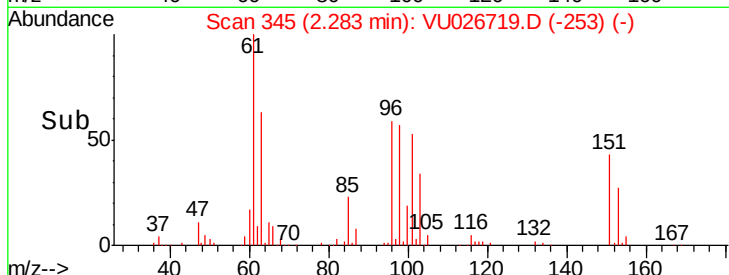
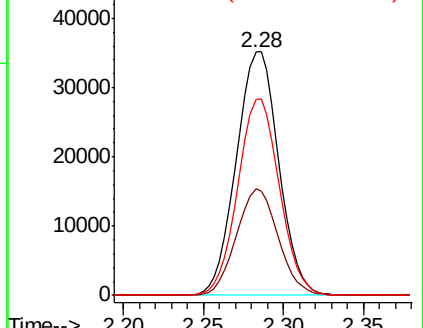
151 79.0 62.6 94.0



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: 51.229 ug/L

RT: 2.28 min Scan# 344

Delta R.T. -0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

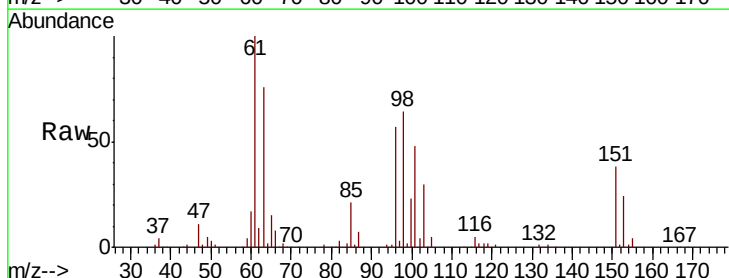
Tgt Ion: 96 Resp: 60882

Ion Ratio Lower Upper

96 100

61 174.7 121.0 224.8

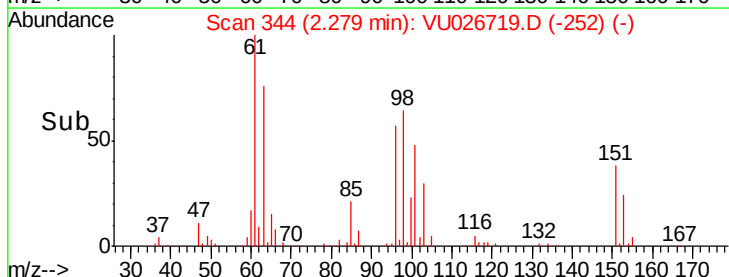
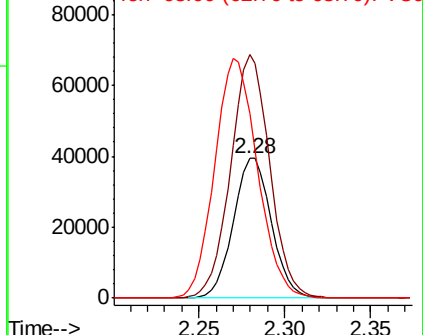
63 132.2 89.9 166.9

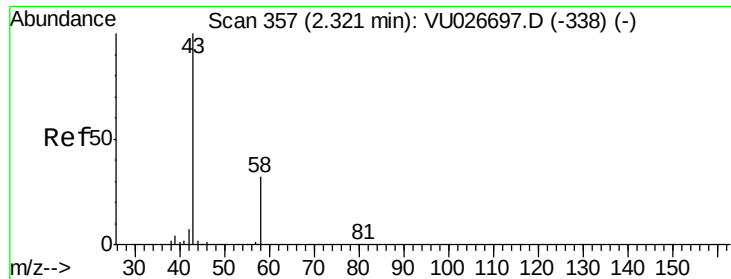


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 73.785 ug/L

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

Instrument :

MSVOA_U

ClientSampleId :

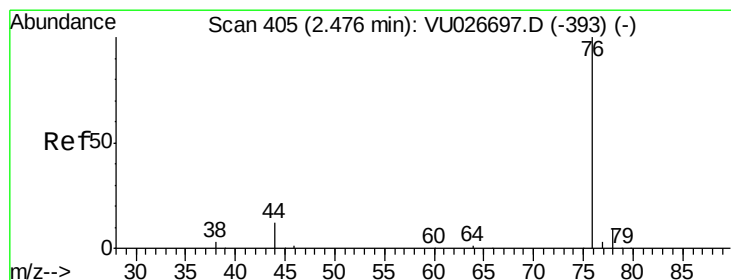
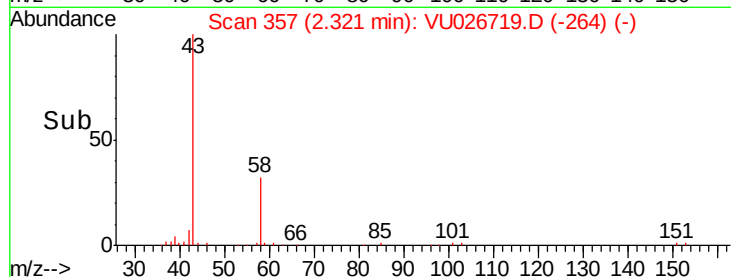
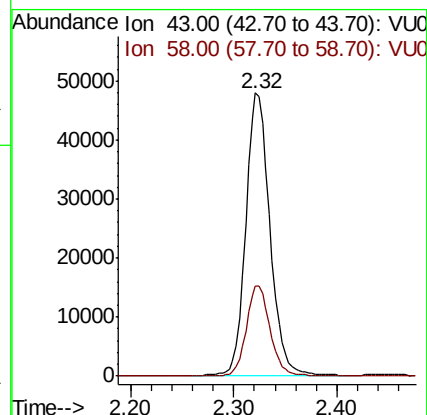
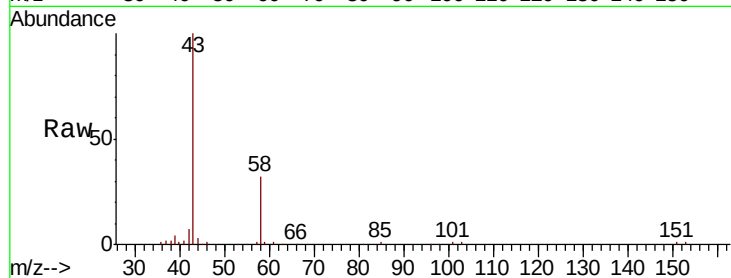
VSTD05059

Tgt Ion: 43 Resp: 78547

Ion Ratio Lower Upper

43 100

58 31.4 0.0 62.8



#14

Carbon disulfide

Concen: 48.720 ug/L

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU026719.D

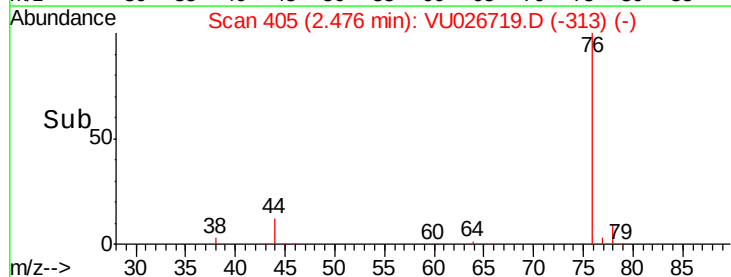
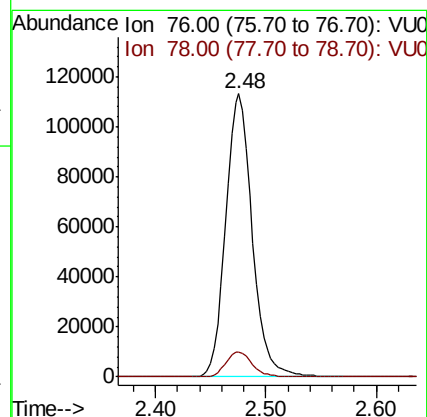
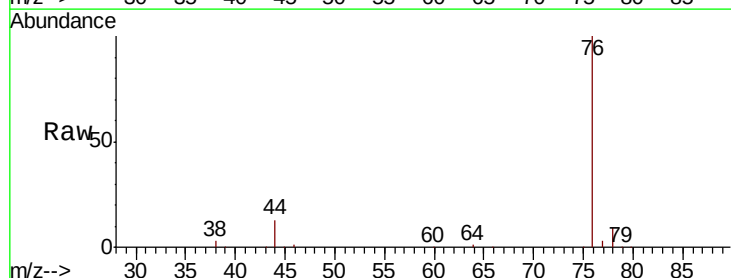
Acq: 12 Sep 2018 22:04

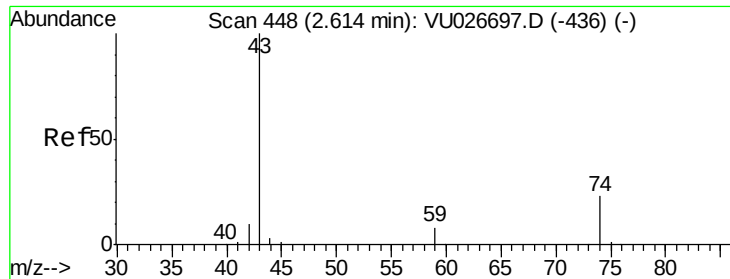
Tgt Ion: 76 Resp: 188051

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.2

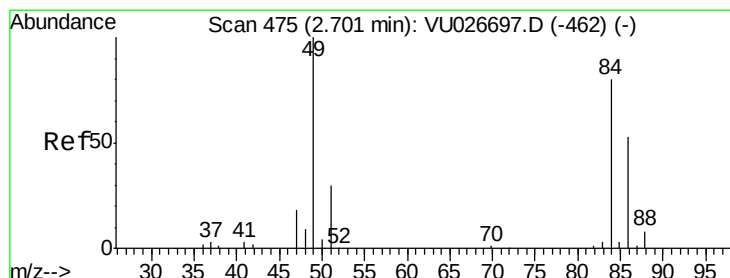
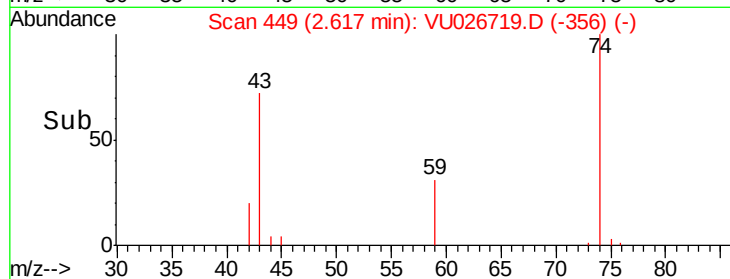
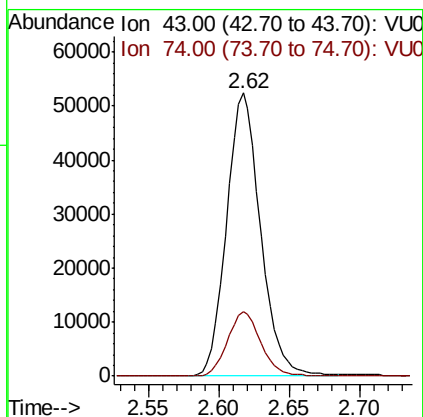
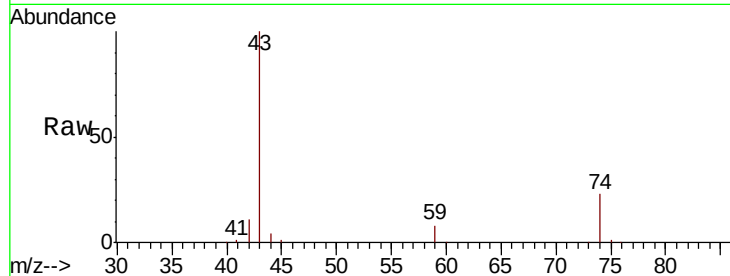




#15
Methyl Acetate
Concen: 58.081 ug/L
RT: 2.62 min Scan# 449
Delta R.T. -0.00 min
Lab File: VU026719.D
Acq: 12 Sep 2018 22:04

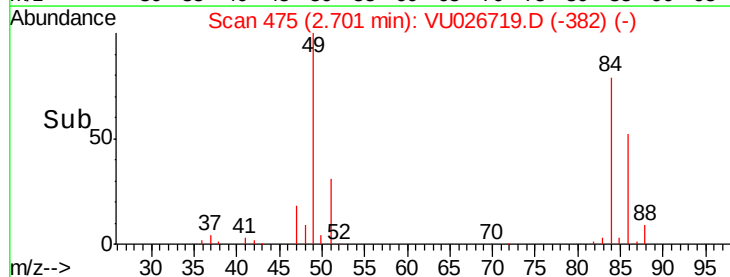
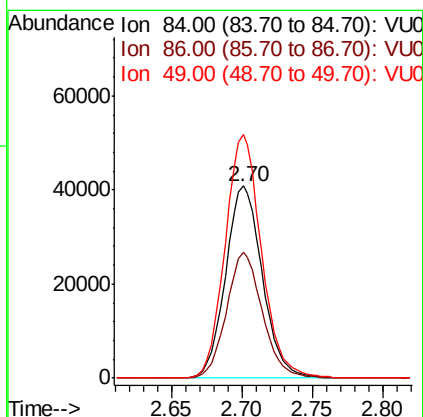
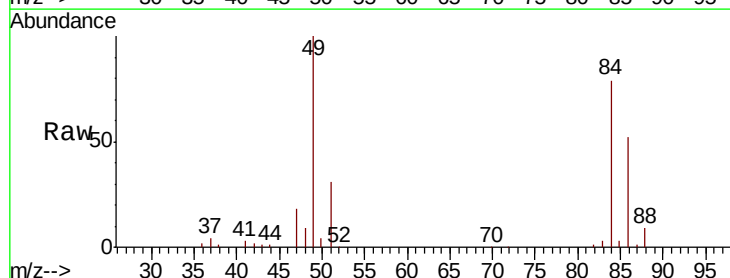
Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

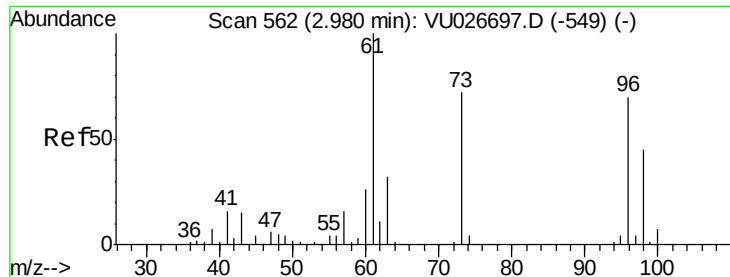
Tgt Ion: 43 Resp: 88207
Ion Ratio Lower Upper
43 100
74 22.3 18.5 27.7



#16
Methylene chloride
Concen: 52.927 ug/L
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU026719.D
Acq: 12 Sep 2018 22:04

Tgt Ion: 84 Resp: 74231
Ion Ratio Lower Upper
84 100
86 65.7 44.1 81.9
49 126.8 87.2 161.9





#17

trans-1,2-Dichloroethene

Concen: 50.351 ug/L

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

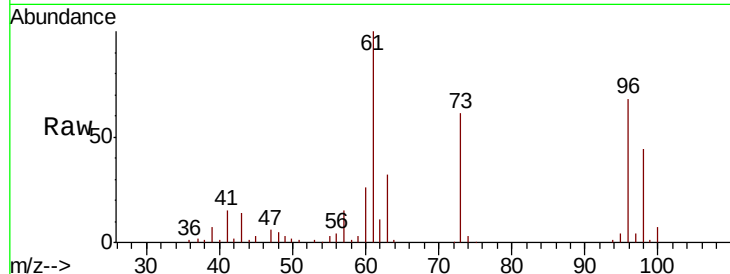
Tgt Ion: 96 Resp: 63404

Ion Ratio Lower Upper

96 100

61 146.9 99.7 185.1

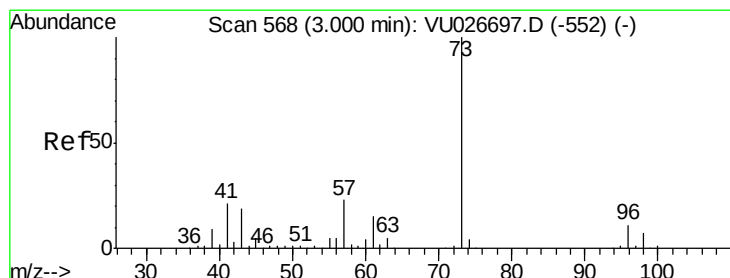
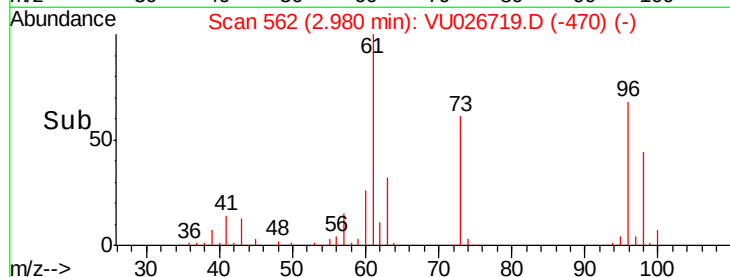
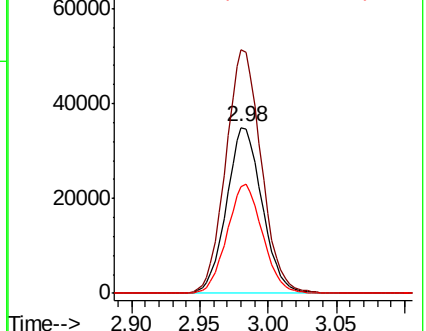
98 64.6 45.1 83.7



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: 55.155 ug/L

RT: 3.00 min Scan# 569

Delta R.T. 0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

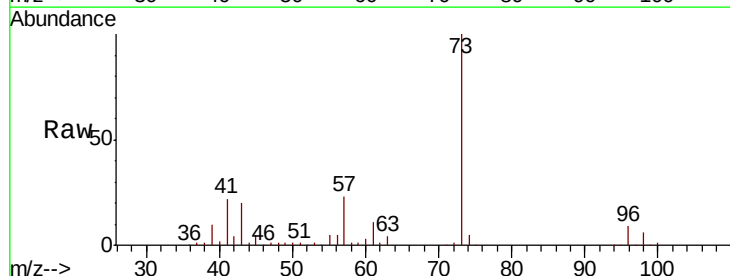
Tgt Ion: 73 Resp: 214013

Ion Ratio Lower Upper

73 100

43 20.6 16.0 24.0

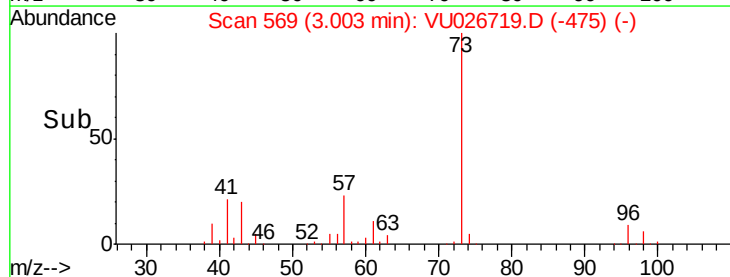
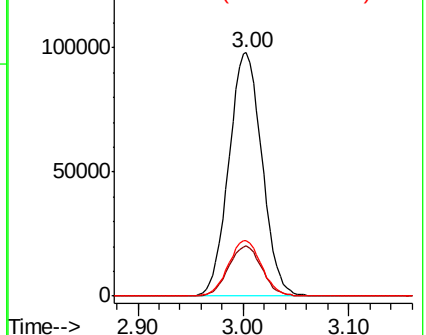
57 22.8 18.6 27.8

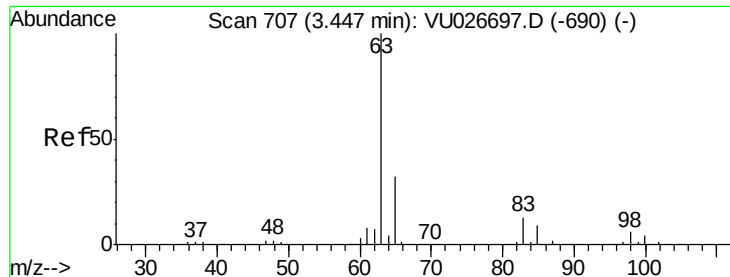


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

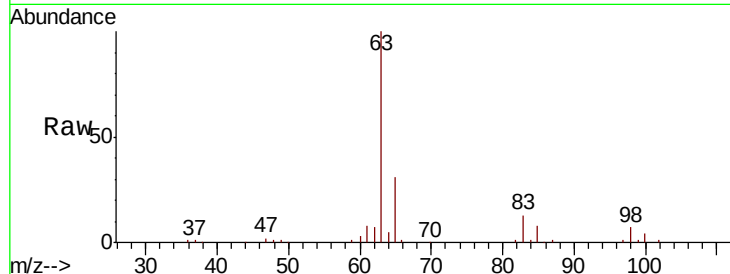




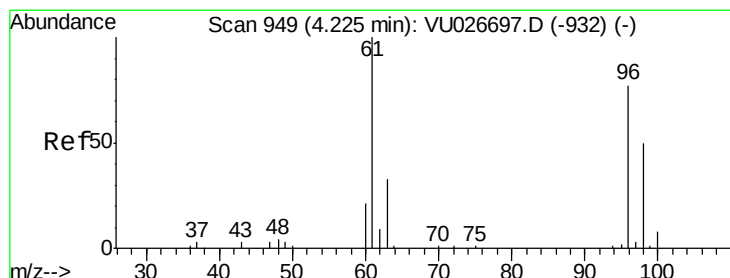
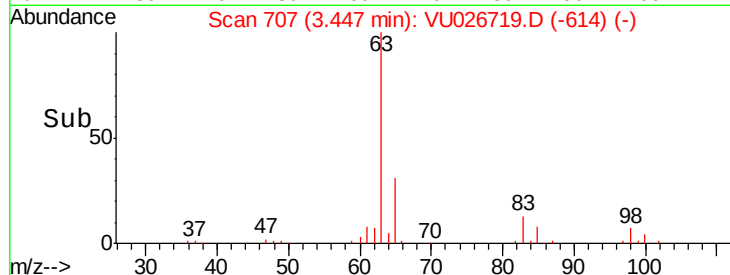
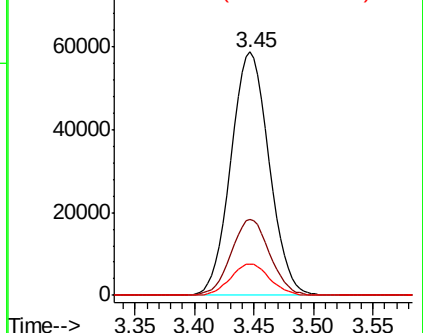
#19
 1,1-Dichloroethane
 Concen: 53.682 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VU026719.D
 Acq: 12 Sep 2018 22:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

Tgt Ion: 63 Resp: 131099
 Ion Ratio Lower Upper
 63 100
 65 31.3 21.9 40.7
 83 13.0 9.2 17.2

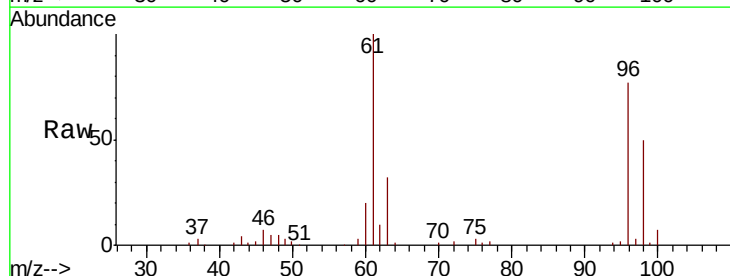


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

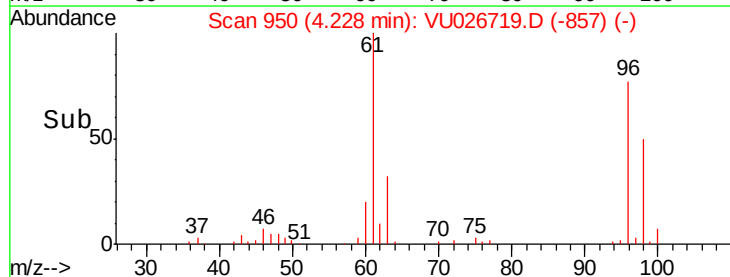
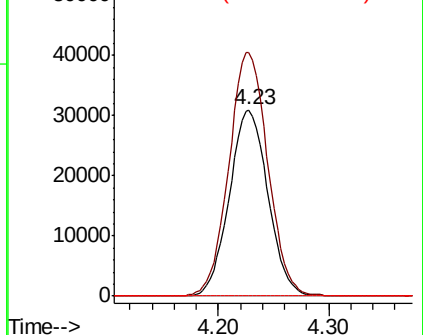


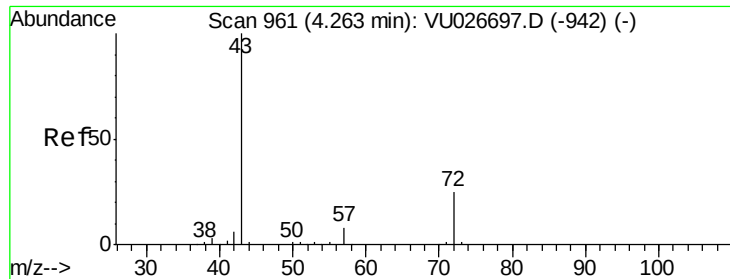
#20
 cis-1,2-Dichloroethene
 Concen: 52.946 ug/L
 RT: 4.23 min Scan# 950
 Delta R.T. -0.00 min
 Lab File: VU026719.D
 Acq: 12 Sep 2018 22:04

Tgt Ion: 96 Resp: 75097
 Ion Ratio Lower Upper
 96 100
 61 130.7 92.9 172.5
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 101.646 ug/L

RT: 4.27 min Scan# 962

Delta R.T. 0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

Instrument :

MSVOA_U

ClientSampleId :

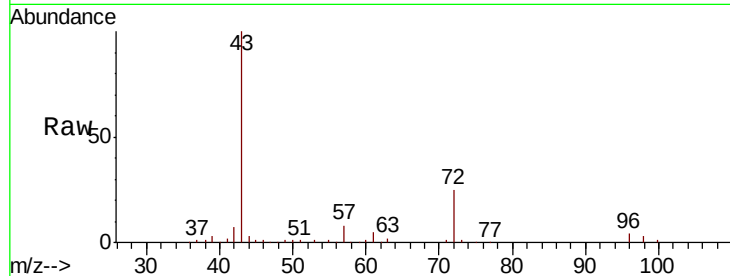
VSTD05059

Tgt Ion: 43 Resp: 123892

Ion Ratio Lower Upper

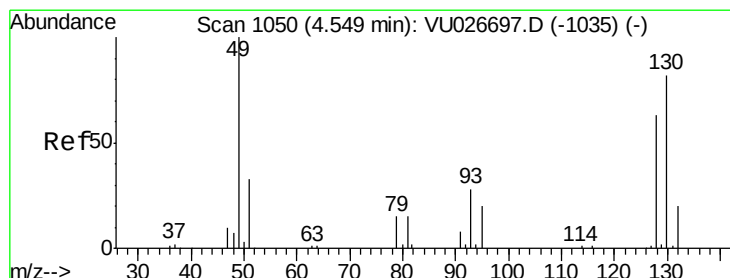
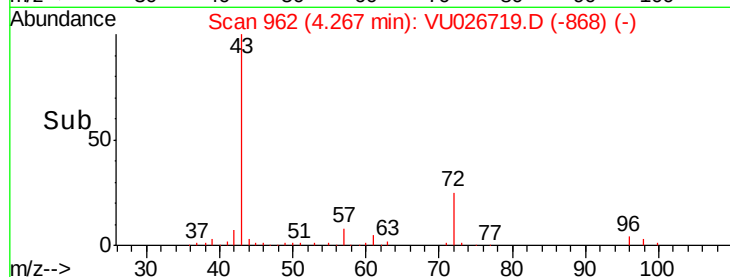
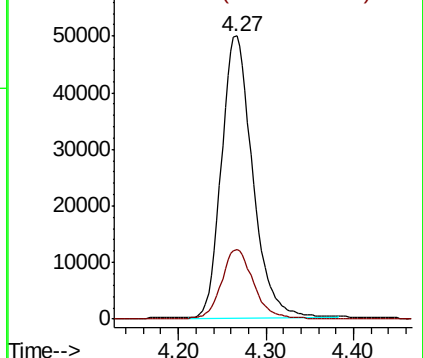
43 100

72 25.4 12.9 38.6



Abundance Ion 43.00 (42.70 to 43.70): VU026697.D (-942) (-)

Ion 72.00 (71.70 to 72.70): VU026697.D (-942) (-)



#23

Bromochloromethane

Concen: 52.562 ug/L

RT: 4.55 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

Tgt Ion: 128 Resp: 38131

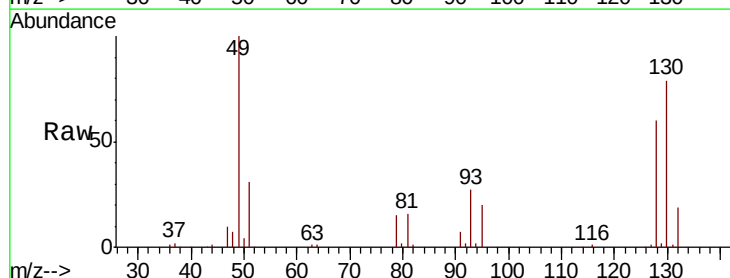
Ion Ratio Lower Upper

128 100

49 167.2 111.7 207.5

130 132.0 89.0 165.2

51 52.6 42.0 63.0

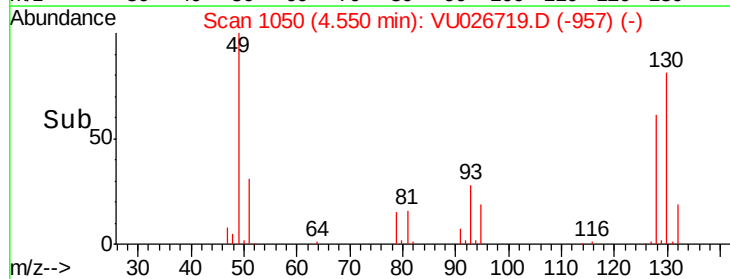
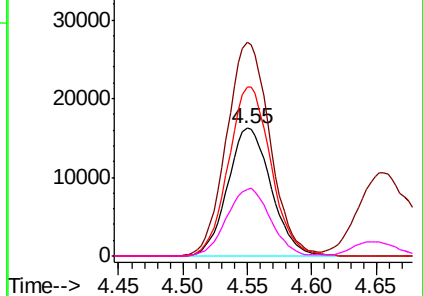


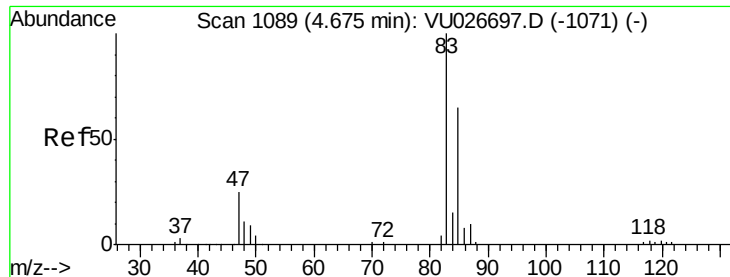
Abundance Ion 128.00 (127.70 to 128.70): VU026697.D (-1035) (-)

Ion 49.00 (48.70 to 49.70): VU026697.D (-1035) (-)

Ion 130.00 (129.70 to 130.70): VU026697.D (-1035) (-)

Ion 51.00 (50.70 to 51.70): VU026697.D (-1035) (-)

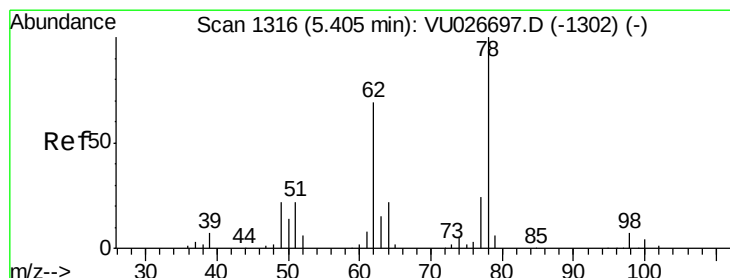
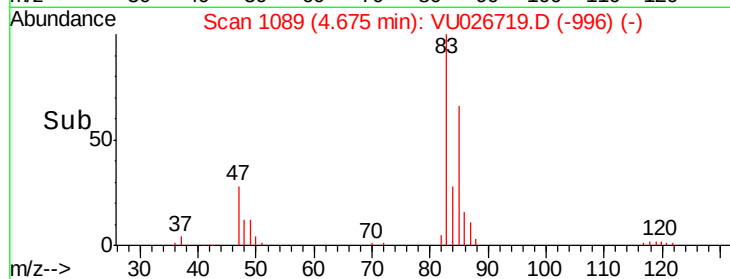
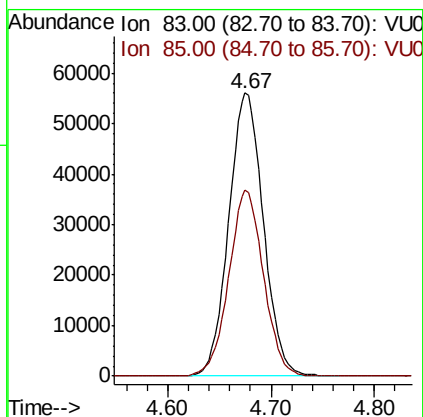
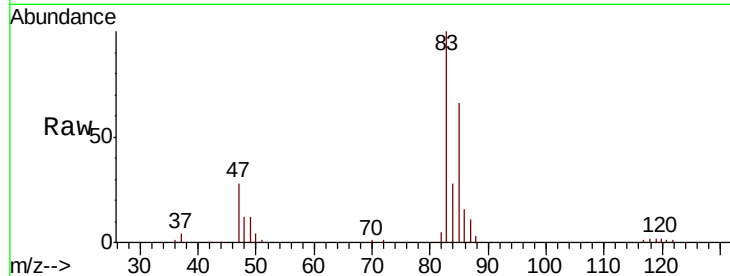




#25
Chloroform
Concen: 53.452 ug/L
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU026719.D
Acq: 12 Sep 2018 22:04

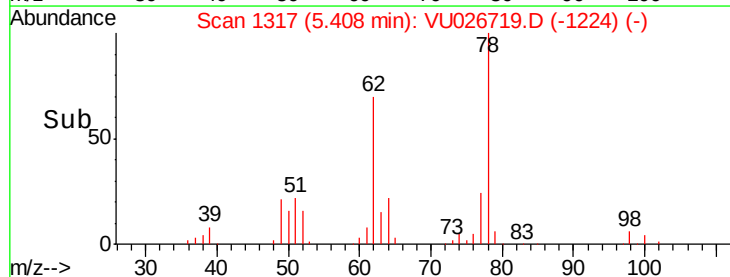
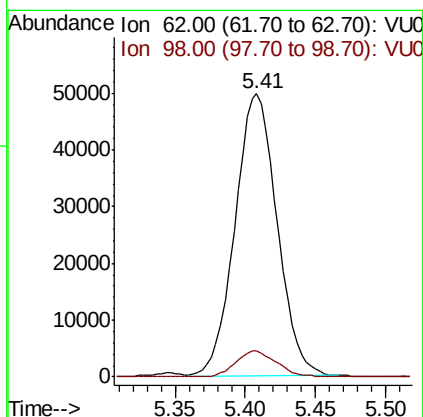
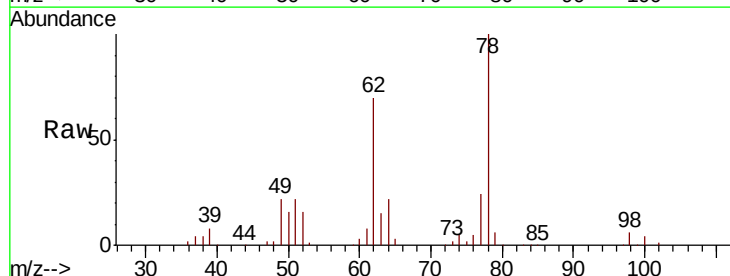
Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

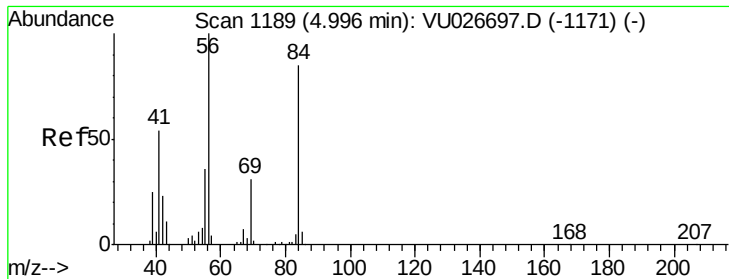
Tgt Ion: 83 Resp: 131206
Ion Ratio Lower Upper
83 100
85 65.6 45.6 84.6



#27
1,2-Dichloroethane
Concen: 53.205 ug/L
RT: 5.41 min Scan# 1317
Delta R.T. -0.00 min
Lab File: VU026719.D
Acq: 12 Sep 2018 22:04

Tgt Ion: 62 Resp: 103704
Ion Ratio Lower Upper
62 100
98 9.0 7.4 11.0





#29

Cyclohexane

Concen: 53.639 ug/L

RT: 5.00 min Scan# 1190

Delta R.T. -0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

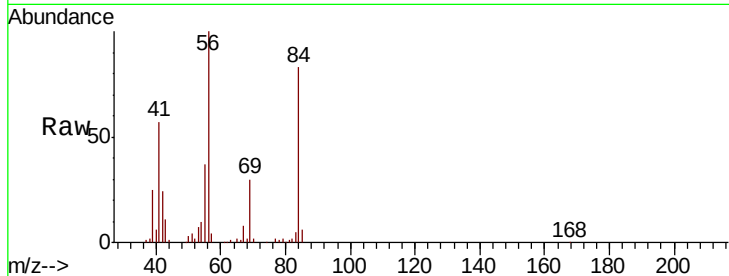
Tgt Ion: 56 Resp: 111993

Ion Ratio Lower Upper

56 100

69 30.5 23.0 34.6

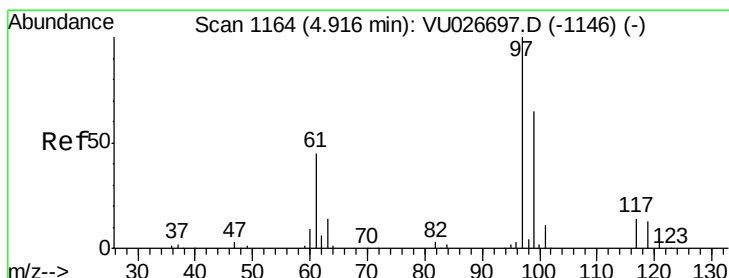
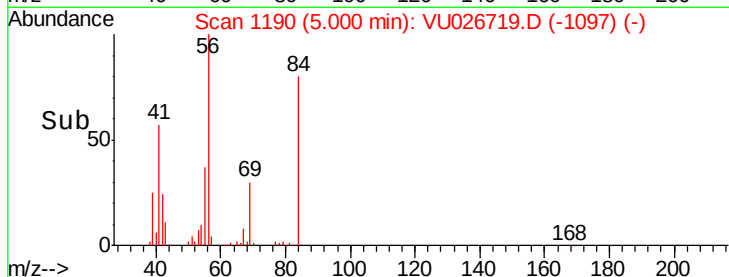
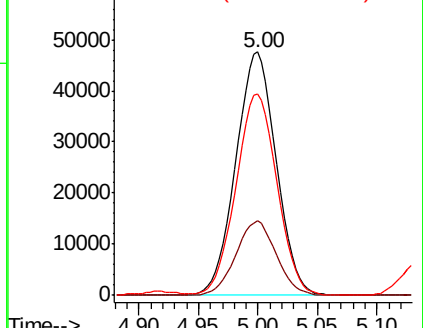
84 84.2 66.5 99.7



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#30

1,1,1-Trichloroethane

Concen: 53.746 ug/L

RT: 4.92 min Scan# 1164

Delta R.T. -0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

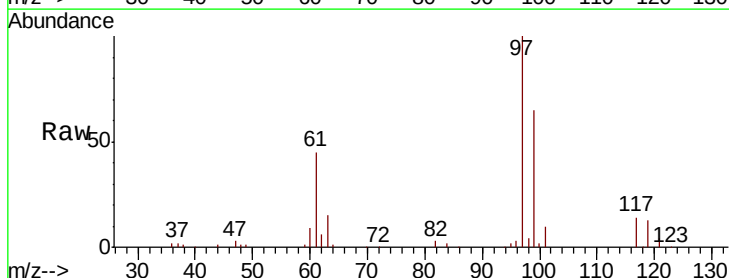
Tgt Ion: 97 Resp: 108530

Ion Ratio Lower Upper

97 100

99 65.0 51.5 77.3

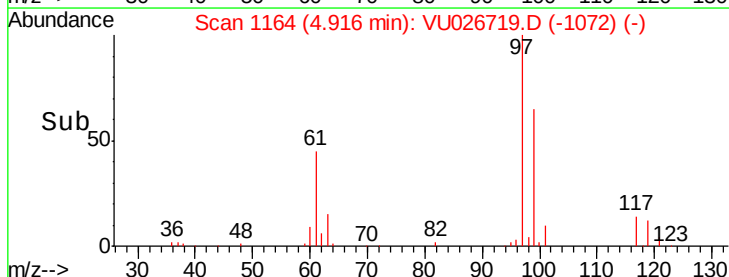
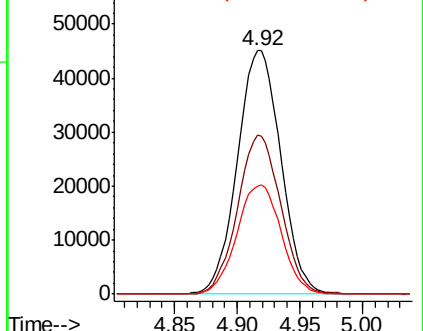
61 45.7 36.2 54.2

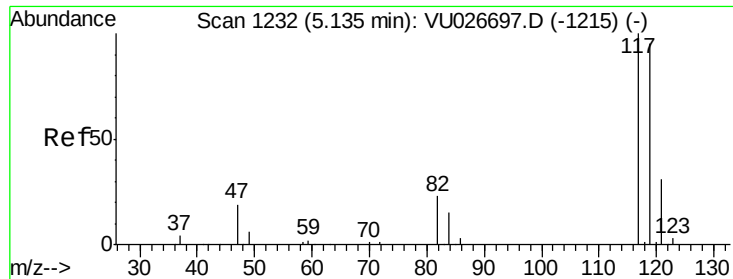


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

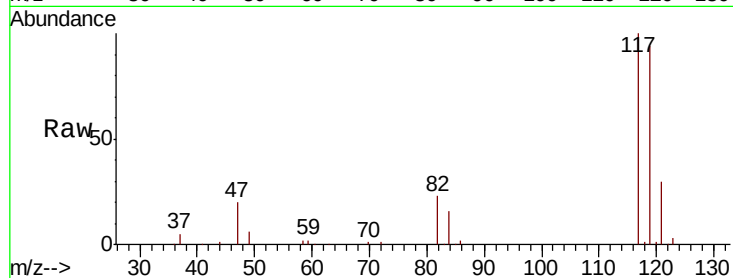




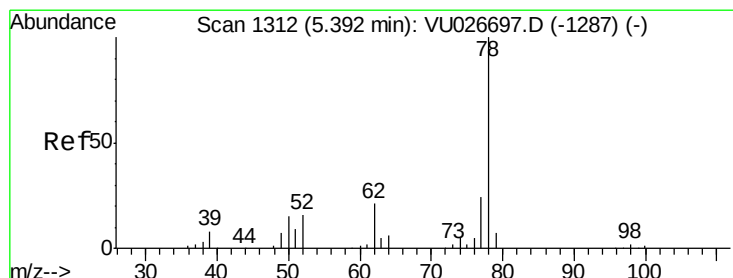
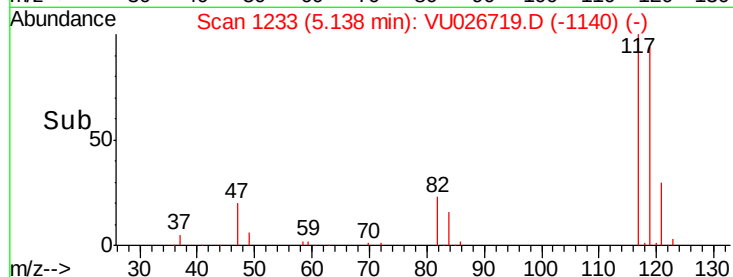
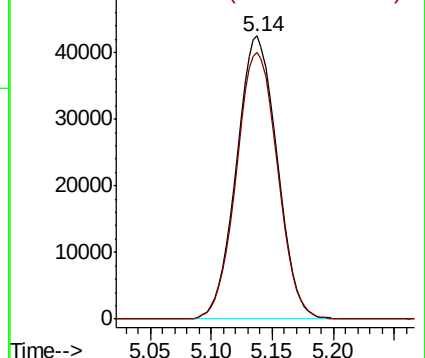
#31
Carbon tetrachloride
Concen: 53.756 ug/L
RT: 5.14 min Scan# 1233
Delta R.T. -0.00 min
Lab File: VU026719.D
Acq: 12 Sep 2018 22:04

Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

Tgt Ion:117 Resp: 98117
Ion Ratio Lower Upper
117 100
119 95.6 77.6 116.4

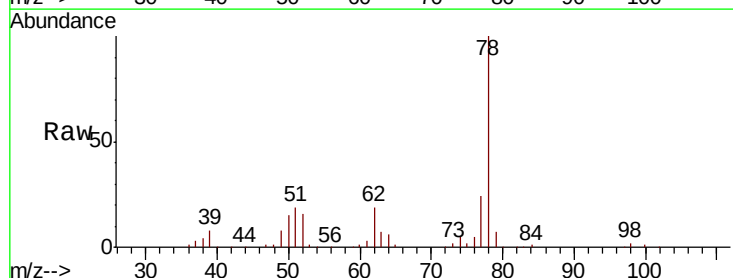


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V

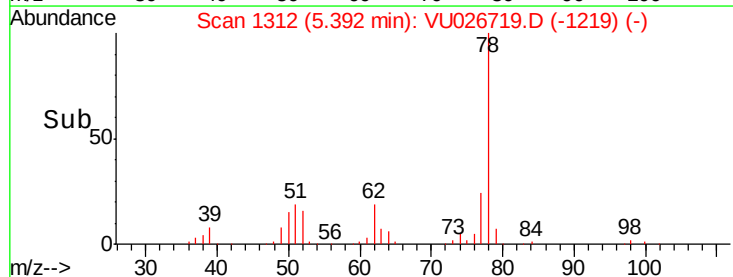
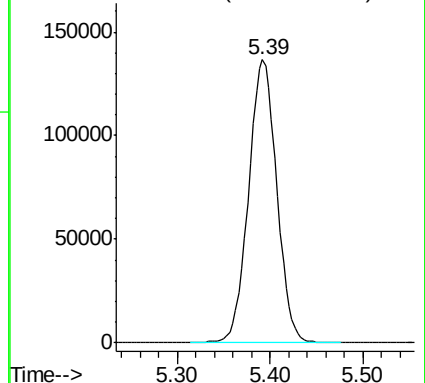


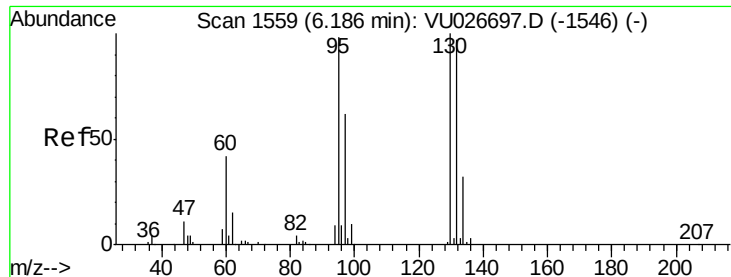
#33
Benzene
Concen: 54.134 ug/L
RT: 5.39 min Scan# 1312
Delta R.T. -0.00 min
Lab File: VU026719.D
Acq: 12 Sep 2018 22:04

Tgt Ion: 78 Resp: 288959



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 52.987 ug/L

RT: 6.19 min Scan# 1560

Delta R.T. -0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

Tgt Ion: 95 Resp: 70299

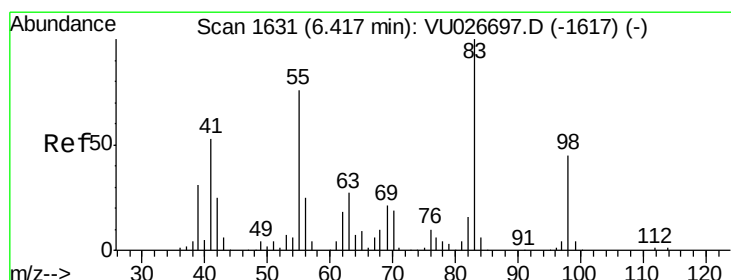
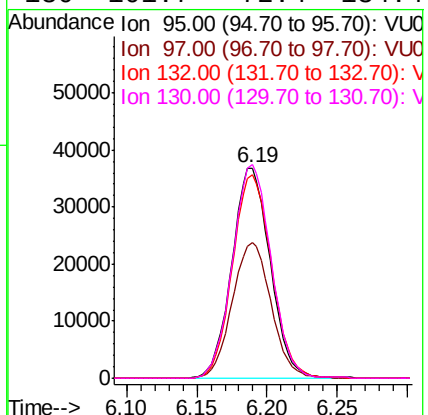
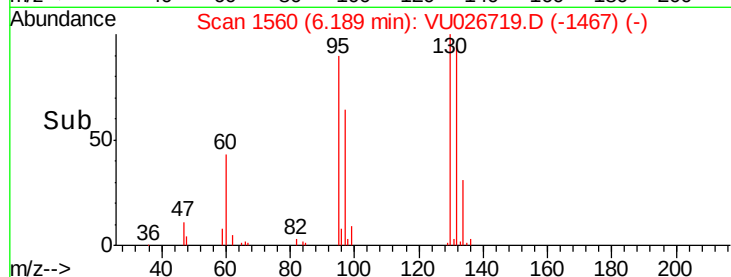
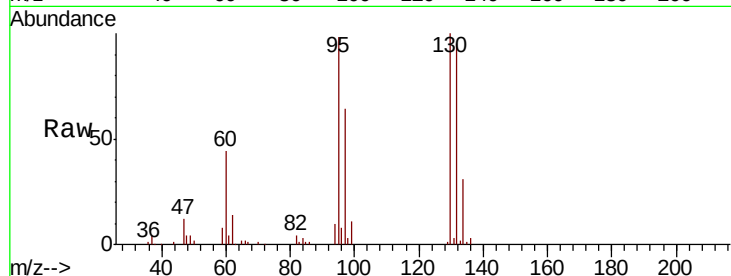
Ion Ratio Lower Upper

95 100

97 64.8 44.9 83.5

132 96.6 69.7 129.5

130 101.7 72.4 134.4



#35

Methylcyclohexane

Concen: 53.684 ug/L

RT: 6.42 min Scan# 1631

Delta R.T. -0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

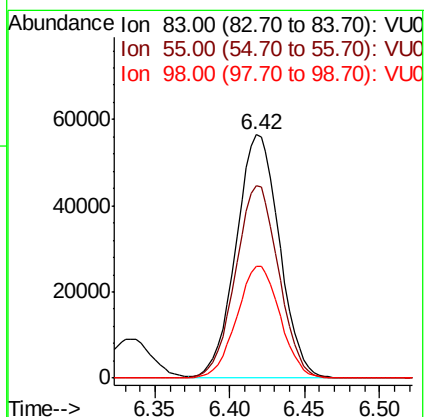
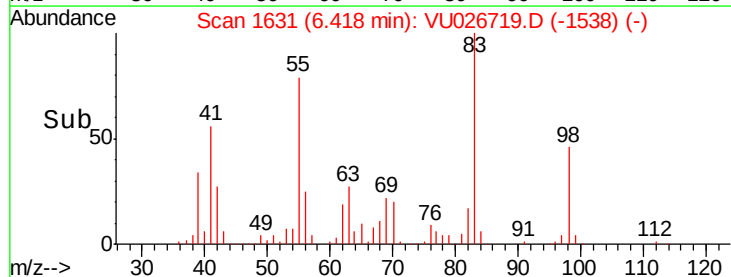
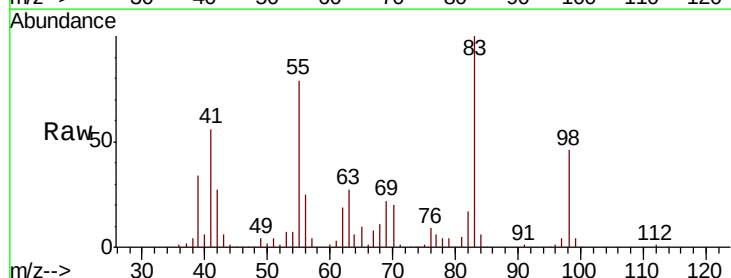
Tgt Ion: 83 Resp: 114009

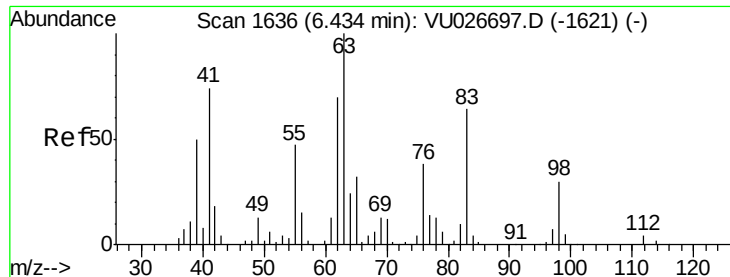
Ion Ratio Lower Upper

83 100

55 78.5 62.9 94.3

98 46.0 37.0 55.4

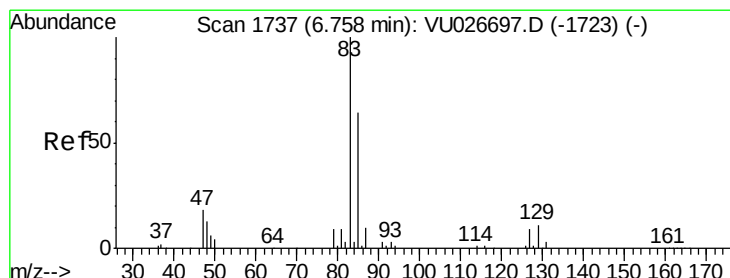
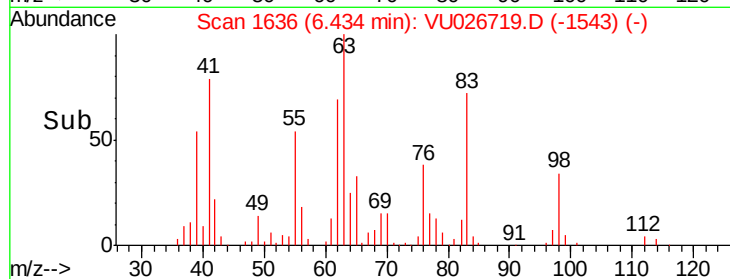
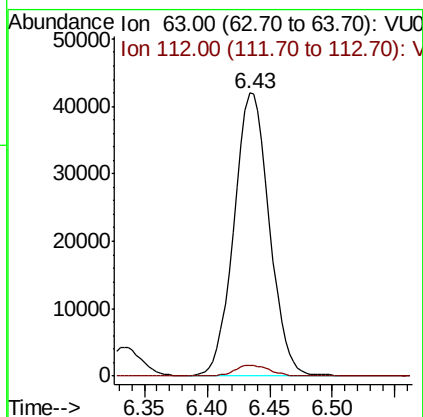
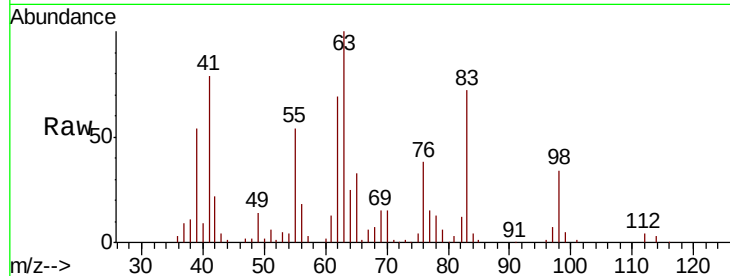




#37
 1,2-Dichloropropane
 Concen: 55.248 ug/L
 RT: 6.43 min Scan# 1636
 Delta R.T. -0.00 min
 Lab File: VU026719.D
 Acq: 12 Sep 2018 22:04

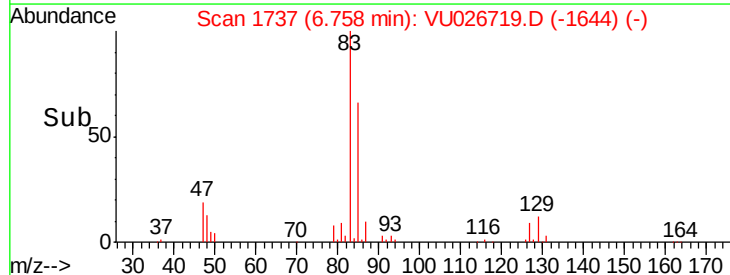
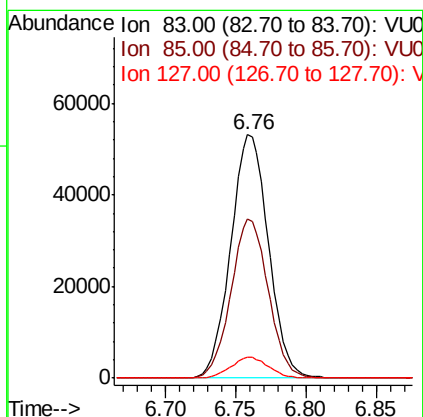
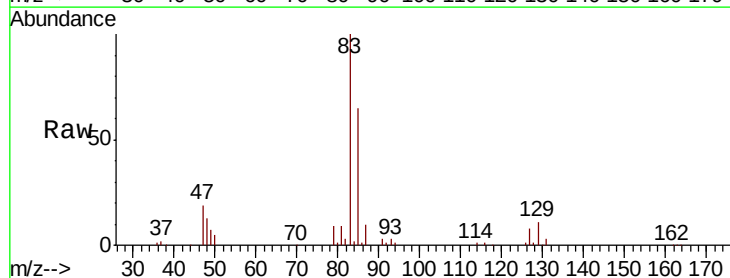
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

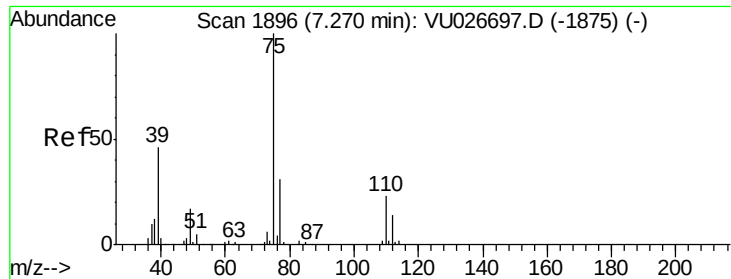
Tgt Ion: 63 Resp: 82385
 Ion Ratio Lower Upper
 63 100
 112 3.8 2.9 4.3



#38
 Bromodichloromethane
 Concen: 54.384 ug/L
 RT: 6.76 min Scan# 1737
 Delta R.T. -0.00 min
 Lab File: VU026719.D
 Acq: 12 Sep 2018 22:04

Tgt Ion: 83 Resp: 99384
 Ion Ratio Lower Upper
 83 100
 85 65.3 45.1 83.9
 127 8.5 7.2 10.8

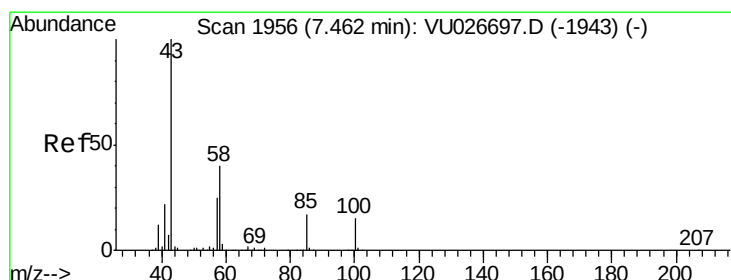
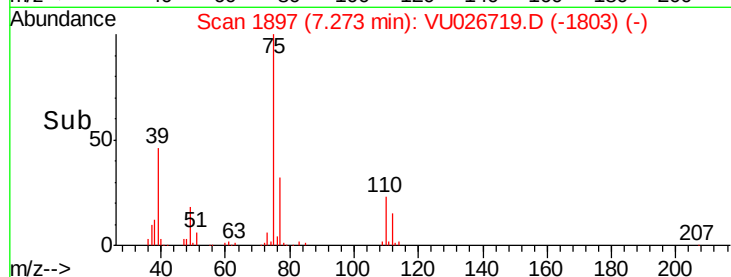
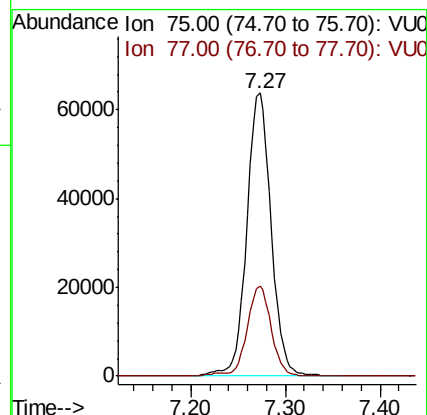
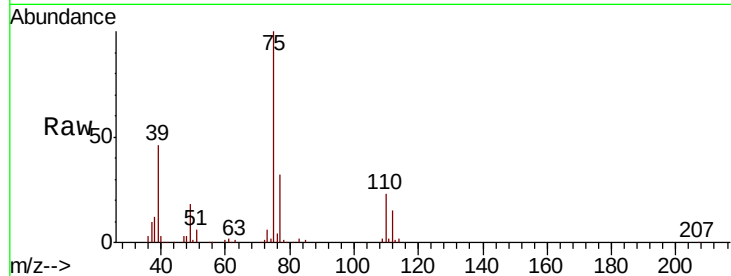




#39
 cis-1,3-Dichloropropene
 Concen: 51.742 ug/L
 RT: 7.27 min Scan# 1897
 Delta R.T. 0.00 min
 Lab File: VU026719.D
 Acq: 12 Sep 2018 22:04

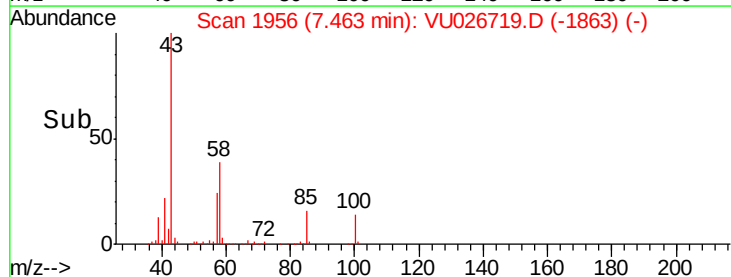
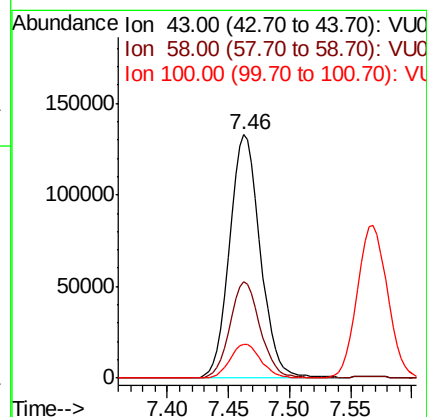
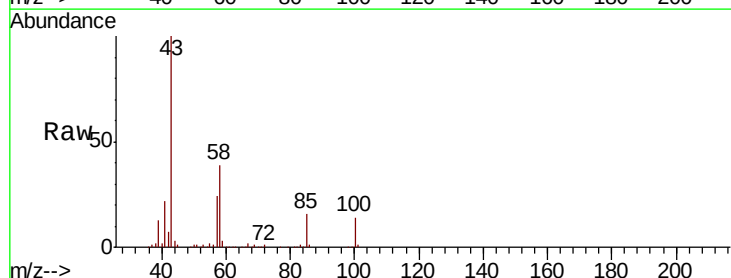
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

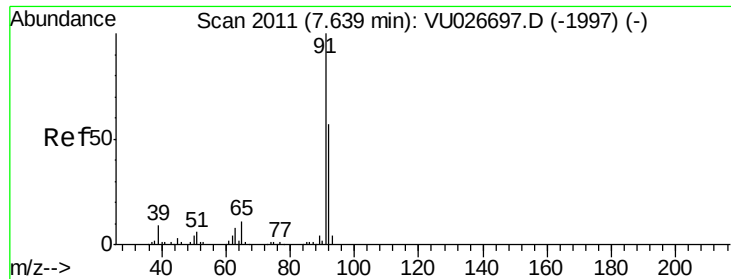
Tgt Ion: 75 Resp: 114174
 Ion Ratio Lower Upper
 75 100
 77 32.0 22.3 41.3



#40
 4-Methyl-2-pentanone
 Concen: 123.586 ug/L
 RT: 7.46 min Scan# 1956
 Delta R.T. -0.00 min
 Lab File: VU026719.D
 Acq: 12 Sep 2018 22:04

Tgt Ion: 43 Resp: 235080
 Ion Ratio Lower Upper
 43 100
 58 38.9 31.1 46.7
 100 14.0 11.3 16.9





#42

Toluene

Concen: 54.817 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. -0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

Instrument :

MSVOA_U

ClientSampleId :

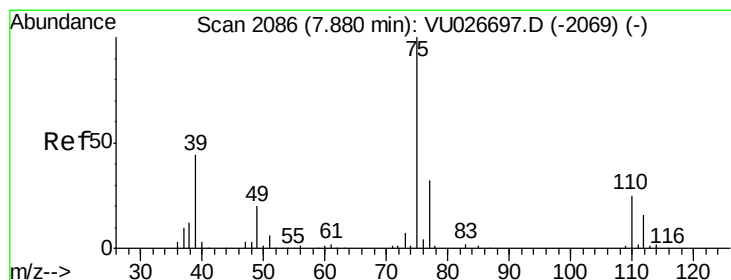
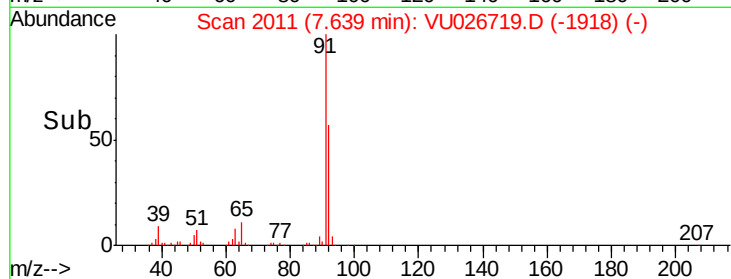
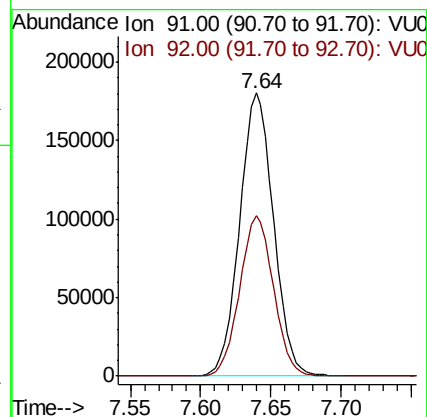
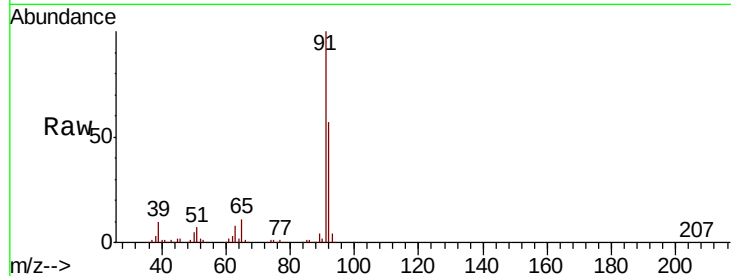
VSTD05059

Tgt Ion: 91 Resp: 303277

Ion Ratio Lower Upper

91 100

92 56.5 40.3 74.9



#44

trans-1,3-Dichloropropene

Concen: 51.380 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. -0.00 min

Lab File: VU026719.D

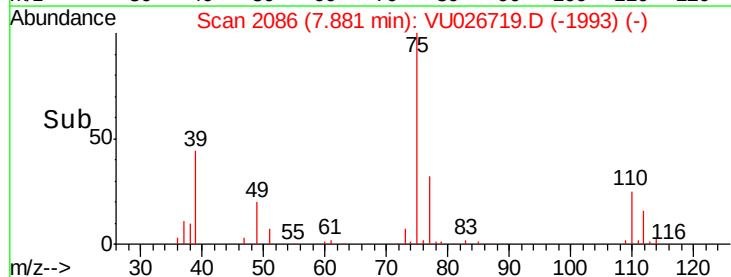
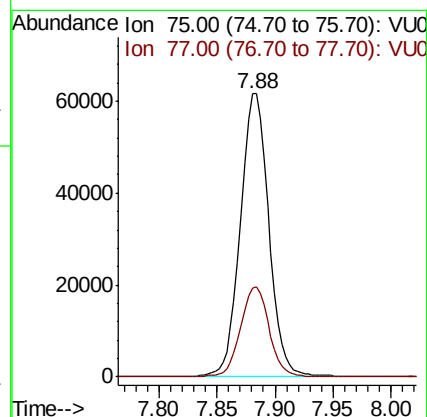
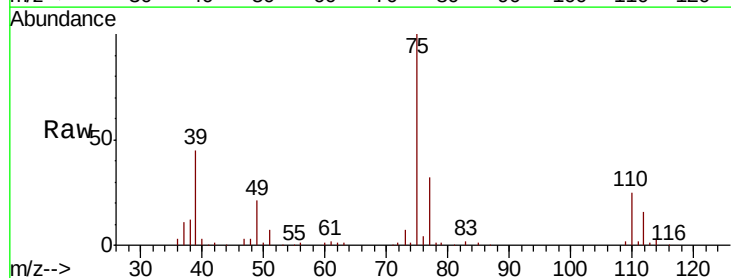
Acq: 12 Sep 2018 22:04

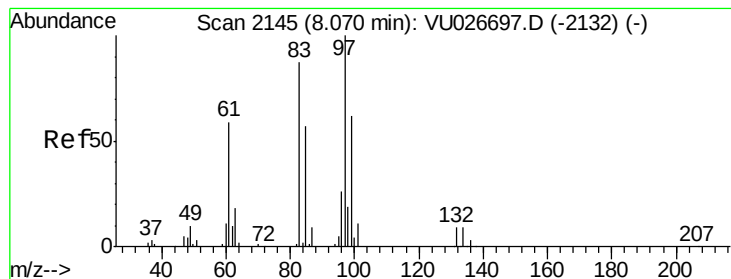
Tgt Ion: 75 Resp: 105473

Ion Ratio Lower Upper

75 100

77 31.6 22.4 41.6





#45

1,1,2-Trichloroethane

Concen: 54.773 ug/L

RT: 8.07 min Scan# 2145

Delta R.T. 0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

Tgt Ion: 97 Resp: 72450

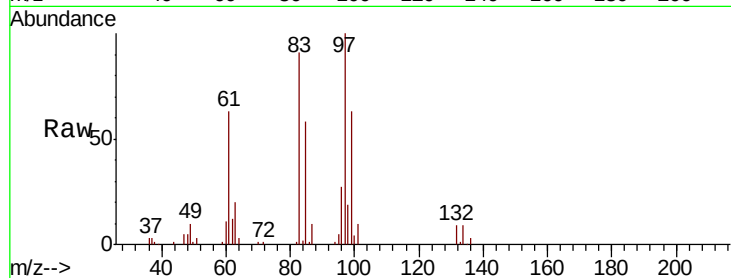
Ion Ratio Lower Upper

97 100

99 62.8 44.2 82.2

83 91.0 63.8 118.6

85 57.8 39.4 73.2

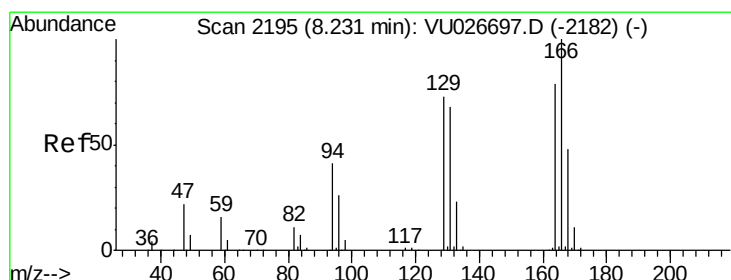
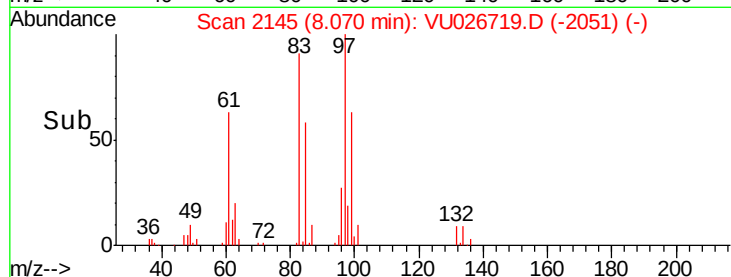
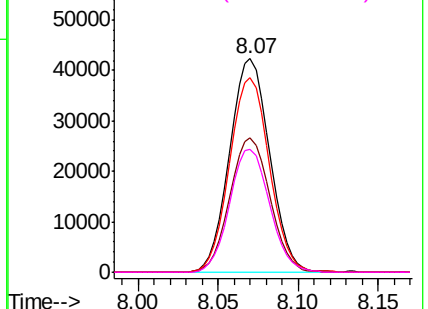


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 52.054 ug/L

RT: 8.23 min Scan# 2195

Delta R.T. 0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

Tgt Ion: 164 Resp: 58042

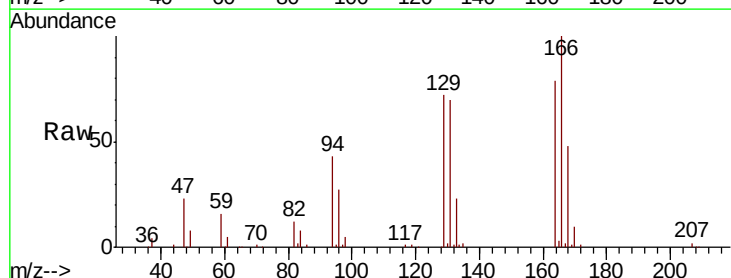
Ion Ratio Lower Upper

164 100

129 92.3 65.0 120.8

131 89.2 62.5 116.1

166 127.4 89.0 165.2

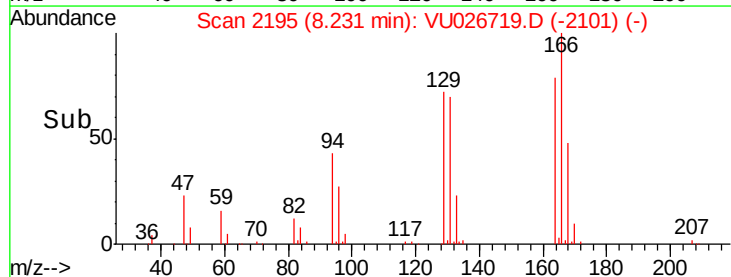
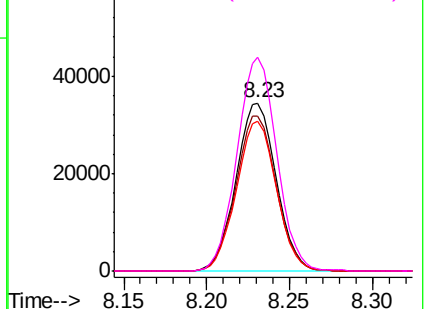


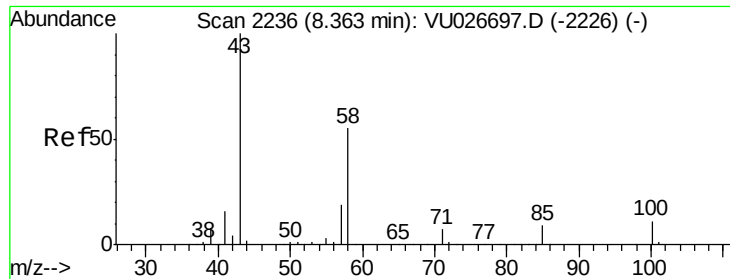
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

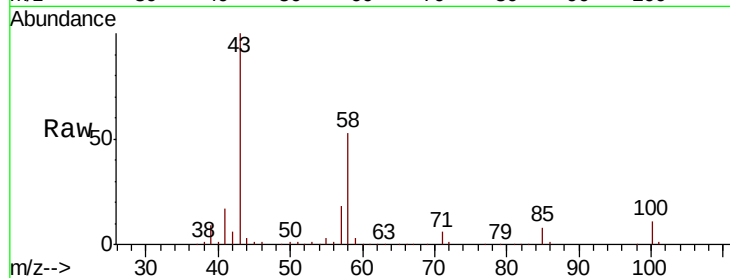




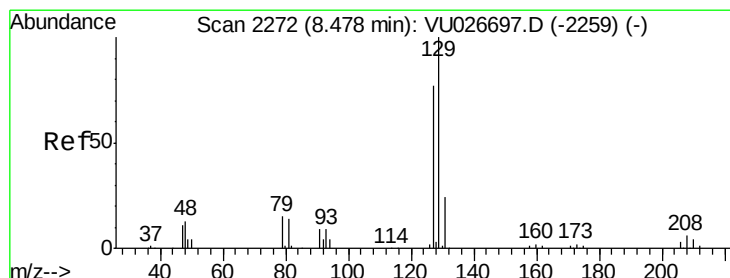
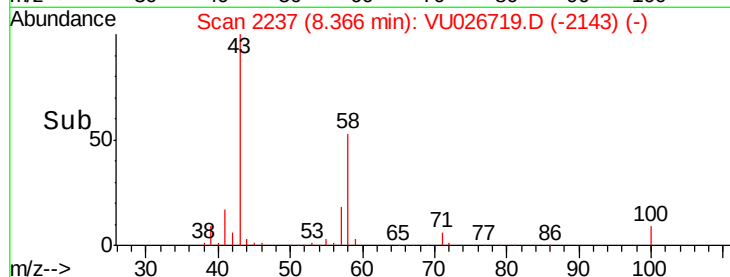
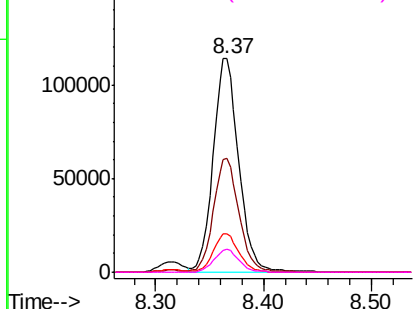
#48
2-Hexanone
Concen: 116.707 ug/L
RT: 8.37 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VU026719.D
Acq: 12 Sep 2018 22:04

Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

Tgt Ion: 43 Resp: 187425
Ion Ratio Lower Upper
43 100
58 53.8 42.2 63.4
57 17.8 14.4 21.6
100 10.5 8.7 13.1

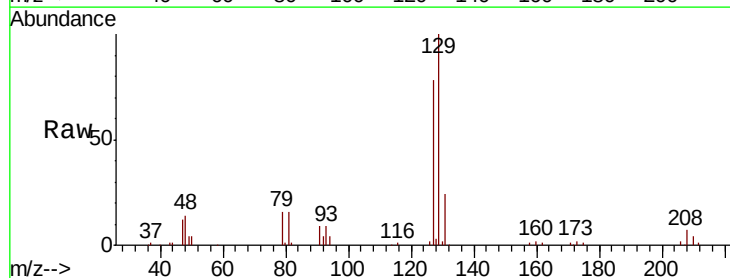


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

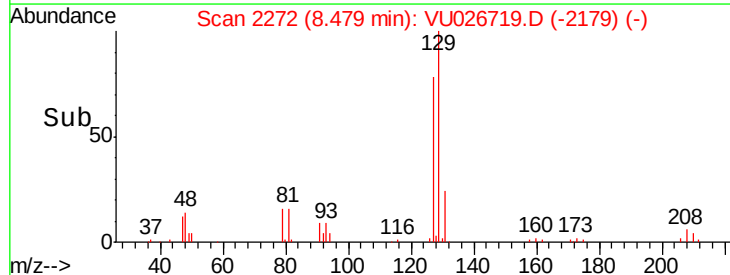
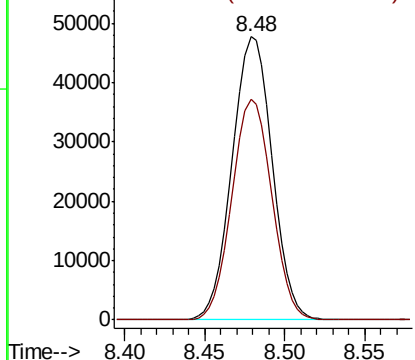


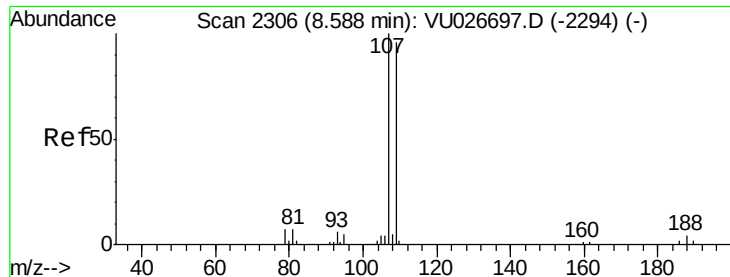
#49
Dibromochloromethane
Concen: 53.478 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VU026719.D
Acq: 12 Sep 2018 22:04

Tgt Ion: 129 Resp: 81761
Ion Ratio Lower Upper
129 100
127 78.0 55.8 103.6



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

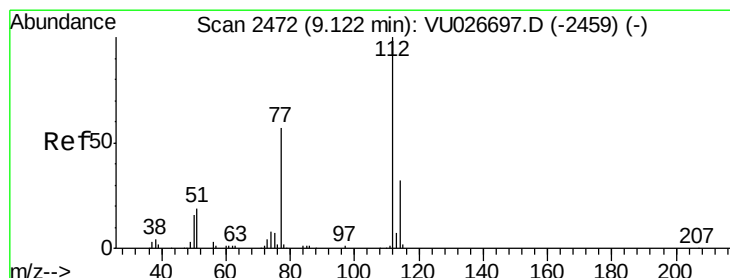
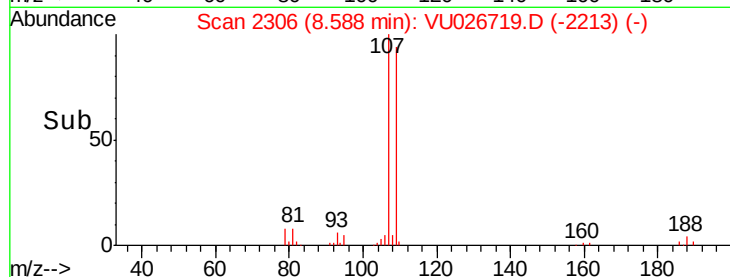
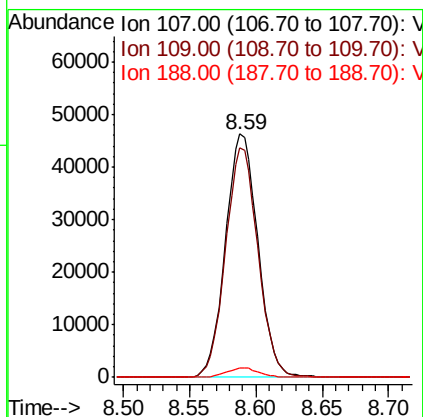
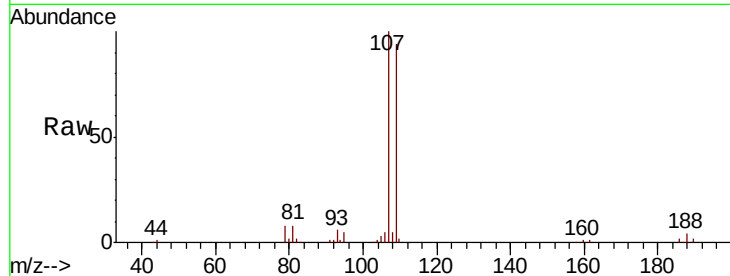




#50
 1,2-Dibromoethane
 Concen: 55.588 ug/L
 RT: 8.59 min Scan# 2306
 Delta R.T. -0.00 min
 Lab File: VU026719.D
 Acq: 12 Sep 2018 22:04

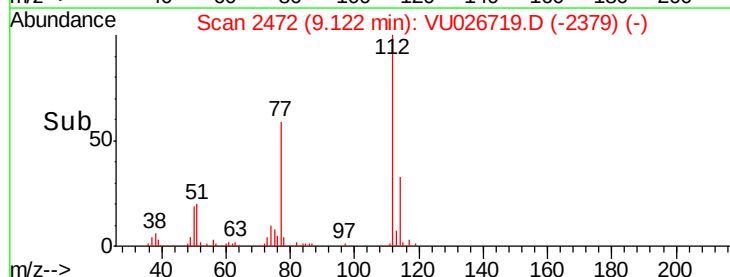
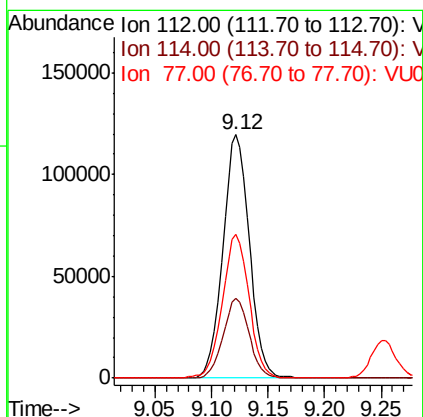
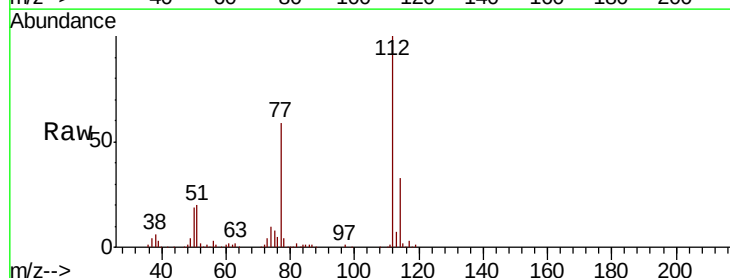
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

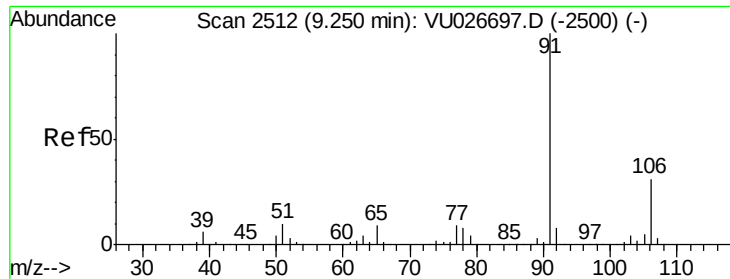
Tgt Ion:107 Resp: 78656
 Ion Ratio Lower Upper
 107 100
 109 94.3 66.4 123.4
 188 3.9 3.0 4.4



#51
 Chlorobenzene
 Concen: 53.592 ug/L
 RT: 9.12 min Scan# 2472
 Delta R.T. -0.00 min
 Lab File: VU026719.D
 Acq: 12 Sep 2018 22:04

Tgt Ion:112 Resp: 194682
 Ion Ratio Lower Upper
 112 100
 114 32.7 22.9 42.5
 77 58.9 47.2 70.8





#52

Ethylbenzene

Concen: 54.667 ug/L

RT: 9.25 min Scan# 2513

Delta R.T. 0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

Instrument :

MSVOA_U

ClientSampleId :

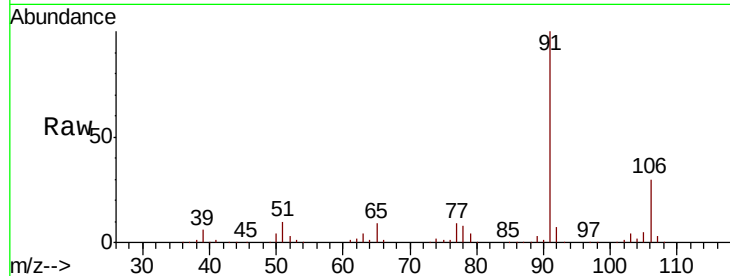
VSTD05059

Tgt Ion: 91 Resp: 327091

Ion Ratio Lower Upper

91 100

106 30.1 22.1 41.1



Abundance Ion 91.00 (90.70 to 91.70): VU026697.D (-2500) (-)

Ion 106.00 (105.70 to 106.70): VU026697.D (-2500) (-)

9.25

200000

150000

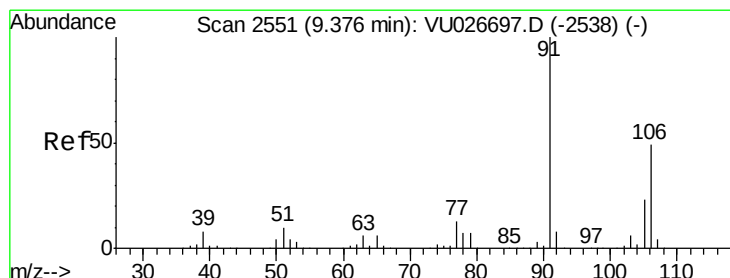
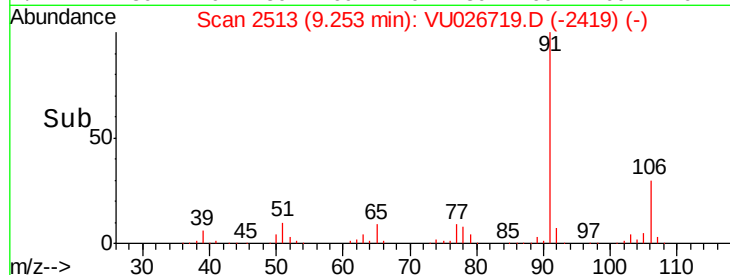
100000

50000

0

9.20 9.25 9.30 9.35

Time-->



#53

m,p-Xylene

Concen: 55.284 ug/L

RT: 9.38 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VU026719.D

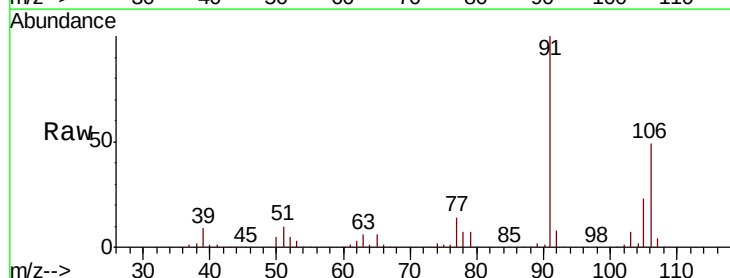
Acq: 12 Sep 2018 22:04

Tgt Ion: 106 Resp: 124724

Ion Ratio Lower Upper

106 100

91 202.5 142.9 265.5



Abundance Ion 106.00 (105.70 to 106.70): VU026697.D (-2538) (-)

Ion 91.00 (90.70 to 91.70): VU026697.D (-2538) (-)

9.38

150000

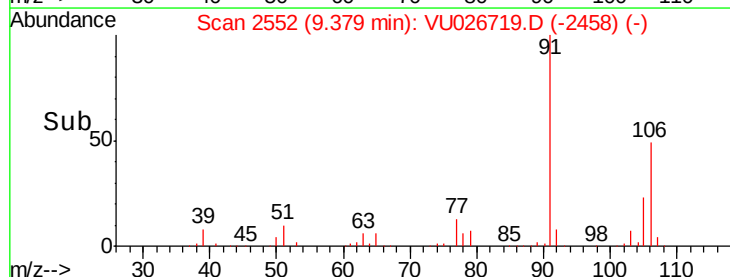
100000

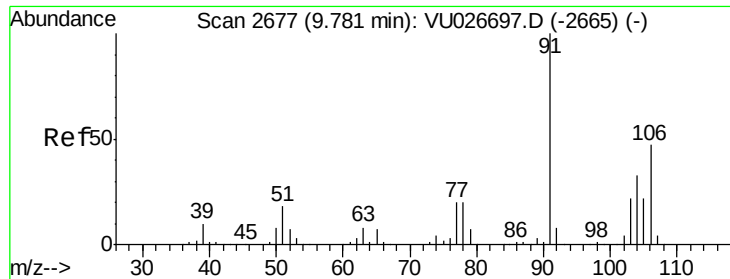
50000

0

9.30 9.35 9.40 9.45

Time-->





#54

o-xylene

Concen: 55.058 ug/L

RT: 9.78 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

Instrument :

MSVOA_U

ClientSampleId :

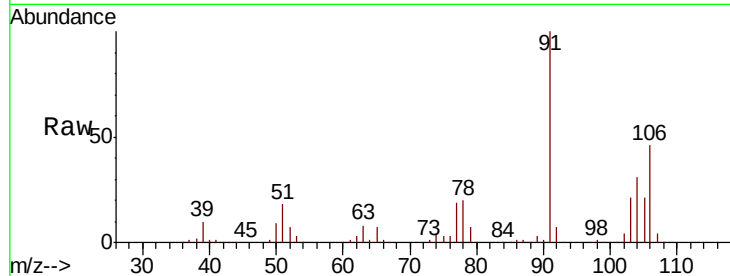
VSTD05059

Tgt Ion:106 Resp: 123278

Ion Ratio Lower Upper

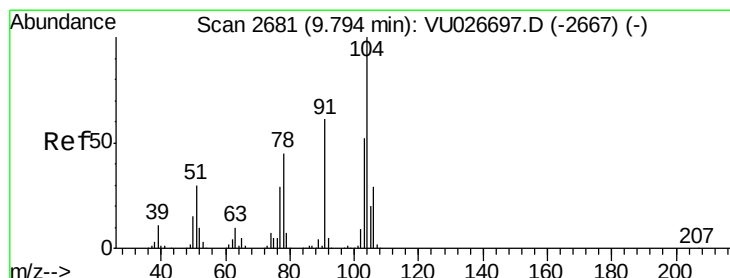
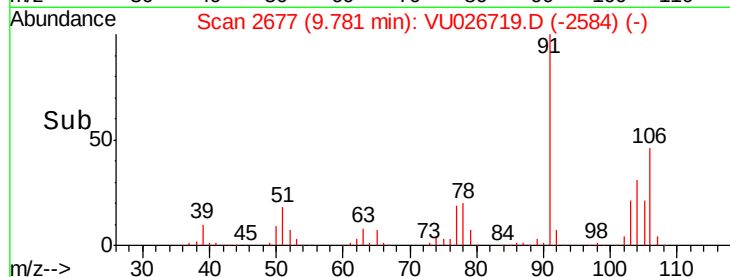
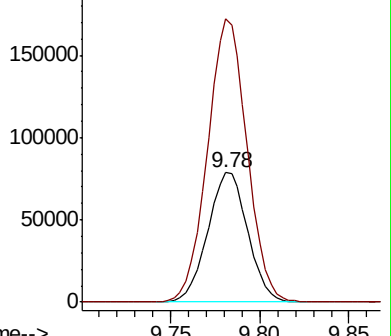
106 100

91 219.1 149.4 277.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 55.736 ug/L

RT: 9.79 min Scan# 2681

Delta R.T. -0.00 min

Lab File: VU026719.D

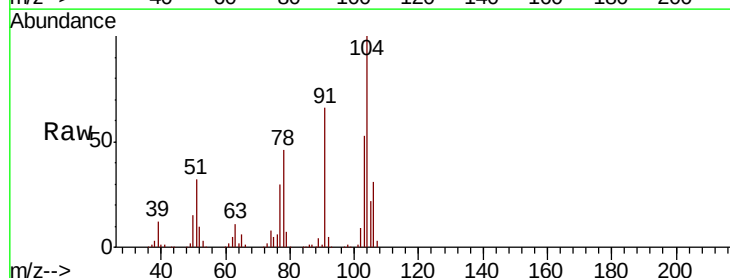
Acq: 12 Sep 2018 22:04

Tgt Ion:104 Resp: 211103

Ion Ratio Lower Upper

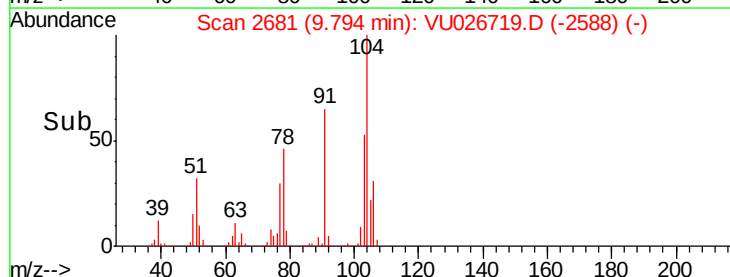
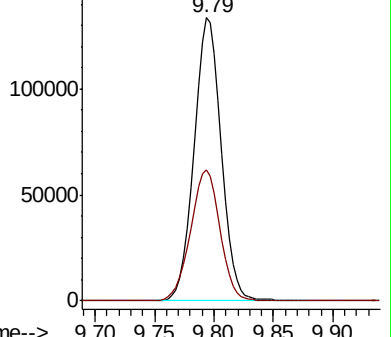
104 100

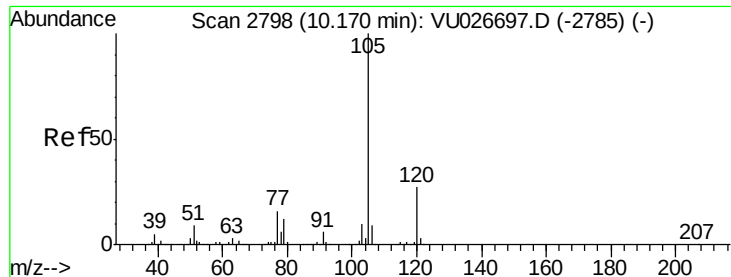
78 46.5 31.7 58.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 55.604 ug/L

RT: 10.17 min Scan# 2798

Delta R.T. -0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

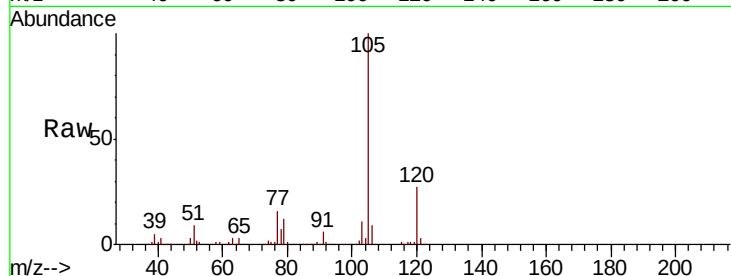
Tgt Ion: 105 Resp: 317154

Ion Ratio Lower Upper

105 100

120 26.8 21.5 32.3

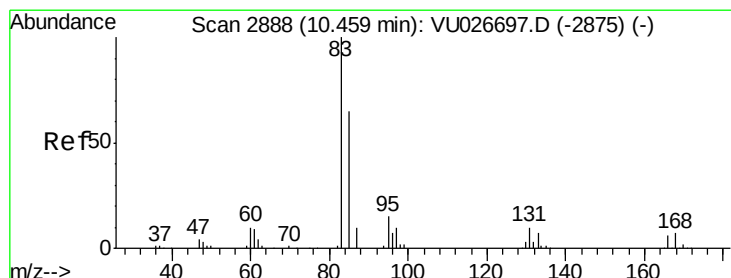
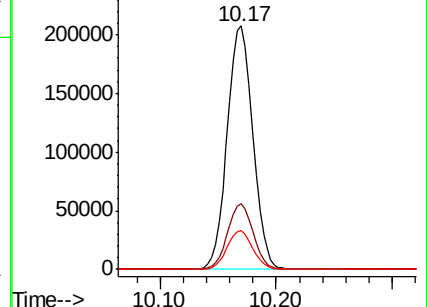
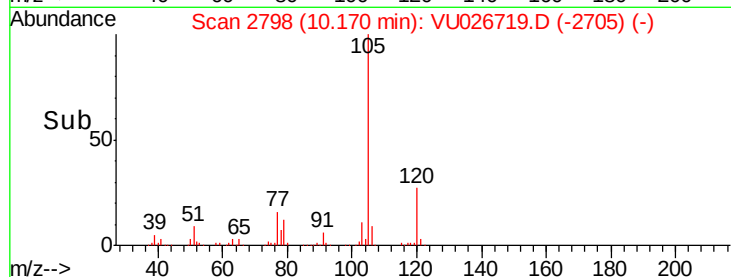
77 15.9 12.6 18.8



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: 55.558 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

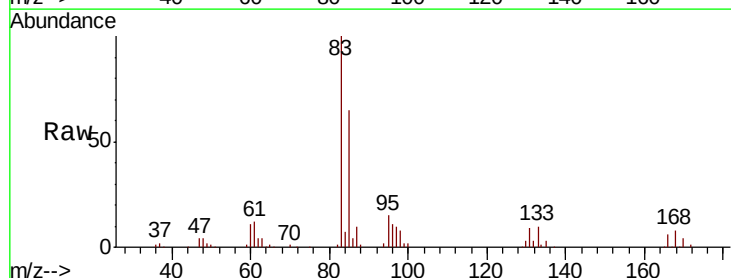
Tgt Ion: 83 Resp: 127310

Ion Ratio Lower Upper

83 100

85 64.6 45.4 84.2

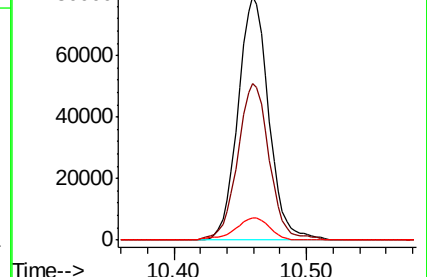
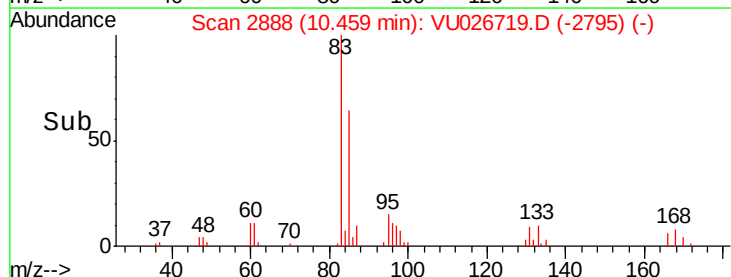
131 9.1 8.0 12.0

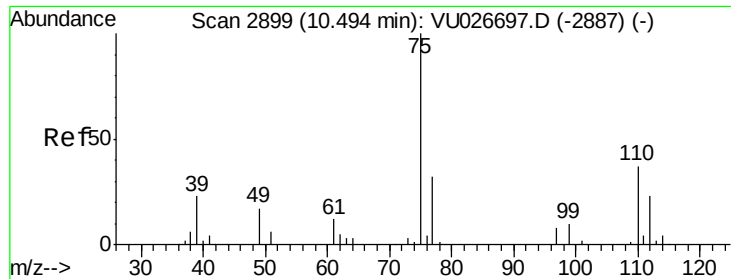


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

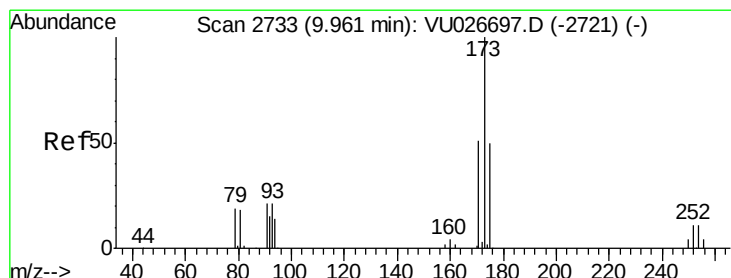
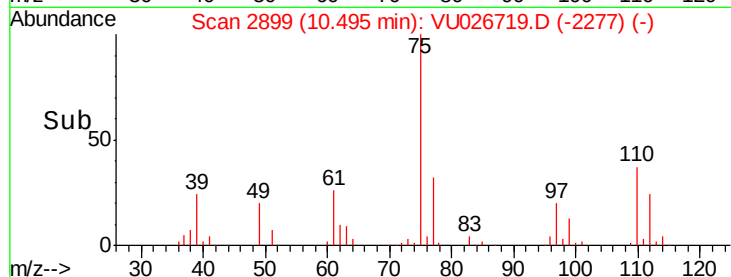
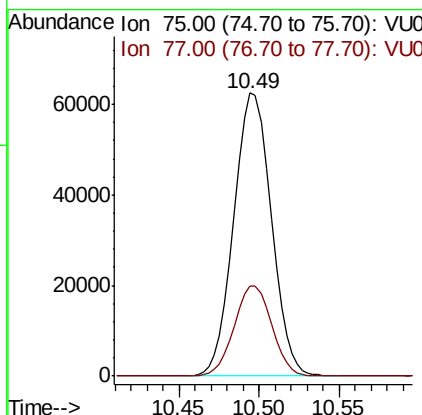
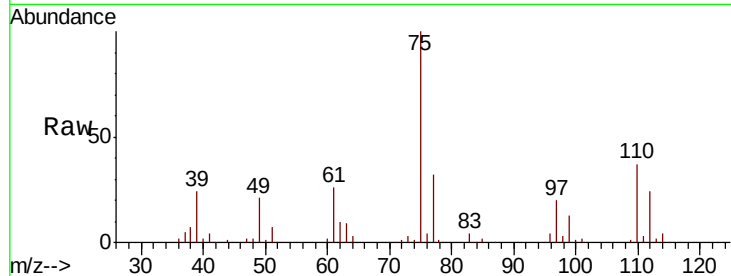




#59
 1,2,3-Trichloropropane
 Concen: 56.895 ug/L
 RT: 10.49 min Scan# 2899
 Delta R.T. -0.00 min
 Lab File: VU026719.D
 Acq: 12 Sep 2018 22:04

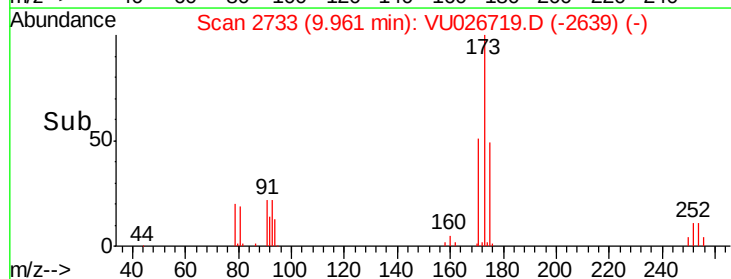
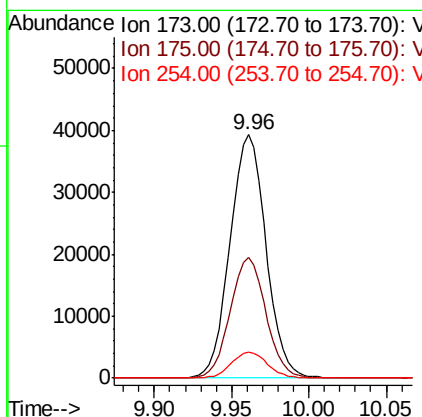
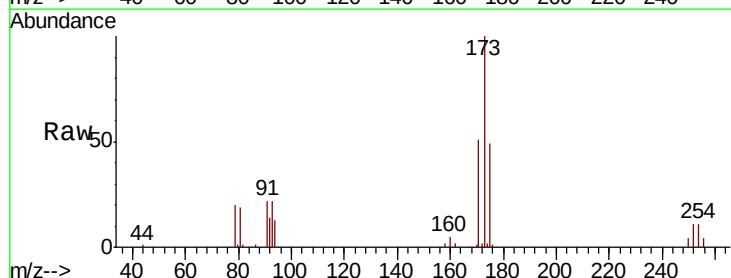
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

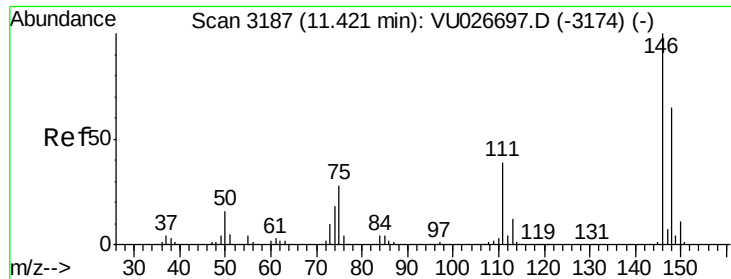
Tgt Ion: 75 Resp: 100383
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.8 38.6



#61
 Bromoform
 Concen: 54.598 ug/L
 RT: 9.96 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VU026719.D
 Acq: 12 Sep 2018 22:04

Tgt Ion: 173 Resp: 63354
 Ion Ratio Lower Upper
 173 100
 175 49.0 38.2 57.4
 254 10.6 8.2 12.4

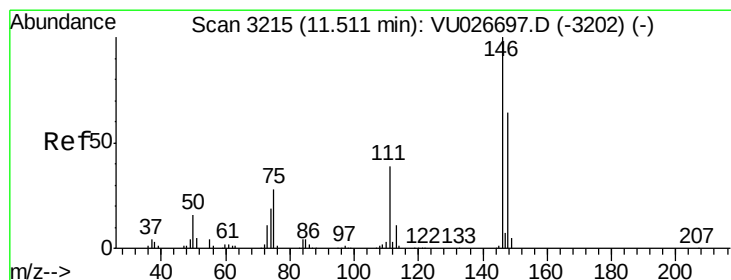
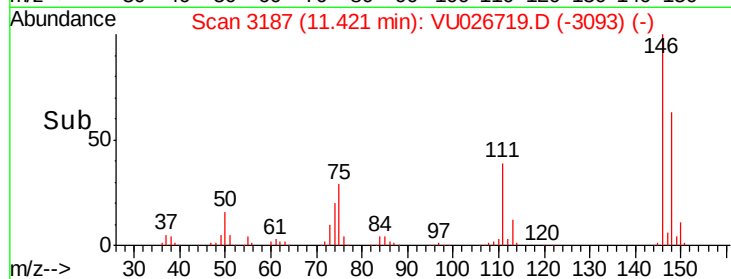
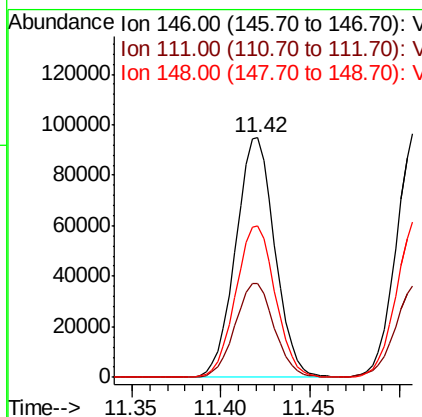
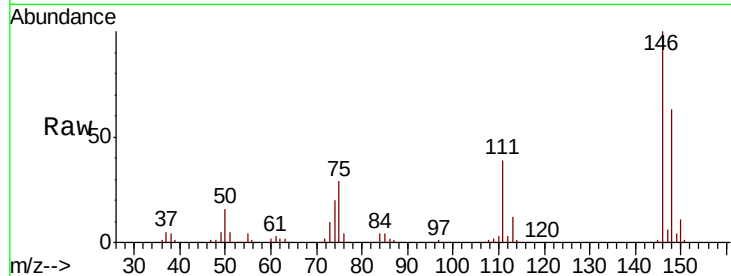




#62
 1,3-Dichlorobenzene
 Concen: 53.851 ug/L
 RT: 11.42 min Scan# 3187
 Delta R.T. 0.00 min
 Lab File: VU026719.D
 Acq: 12 Sep 2018 22:04

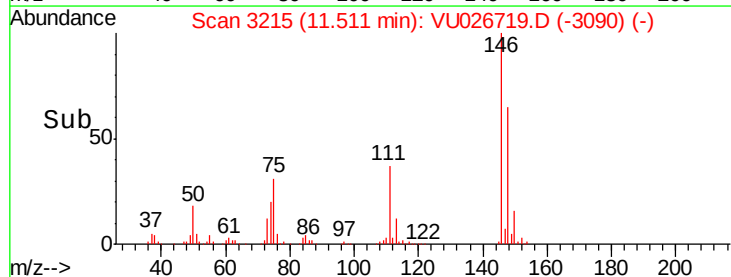
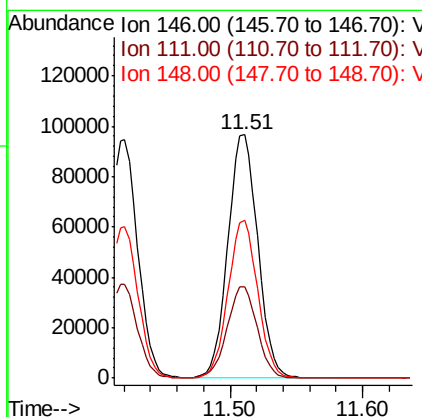
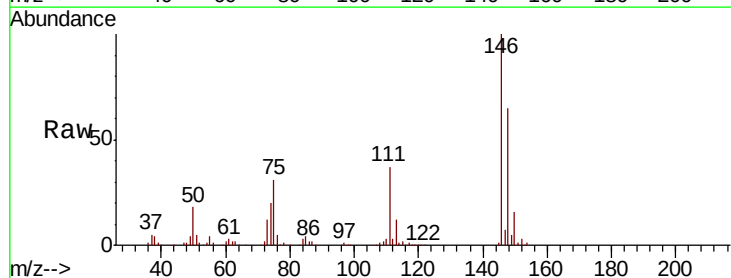
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

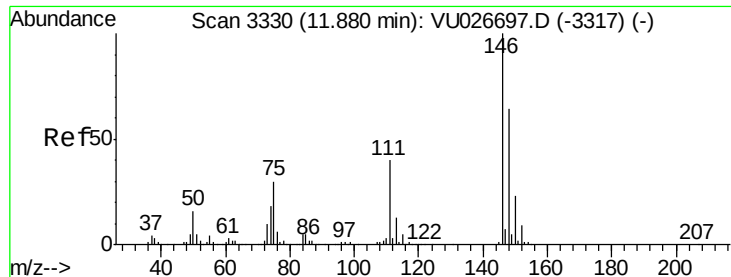
Tgt Ion:146 Resp: 145649
 Ion Ratio Lower Upper
 146 100
 111 39.1 26.7 49.5
 148 63.5 44.2 82.2



#63
 1,4-Dichlorobenzene
 Concen: 52.851 ug/L
 RT: 11.51 min Scan# 3215
 Delta R.T. 0.00 min
 Lab File: VU026719.D
 Acq: 12 Sep 2018 22:04

Tgt Ion:146 Resp: 151430
 Ion Ratio Lower Upper
 146 100
 111 37.3 26.5 49.3
 148 64.7 45.2 84.0

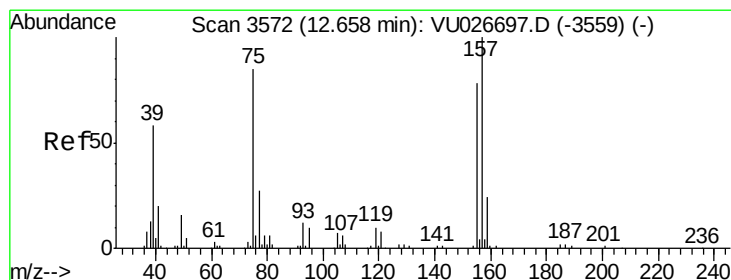
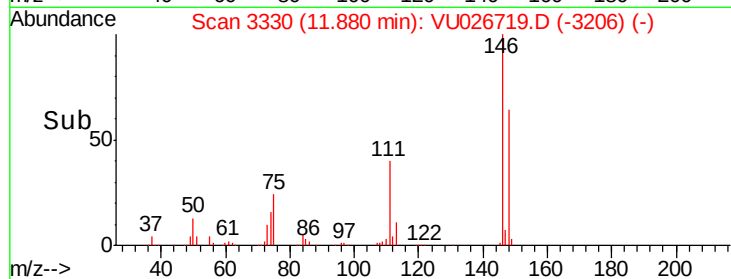
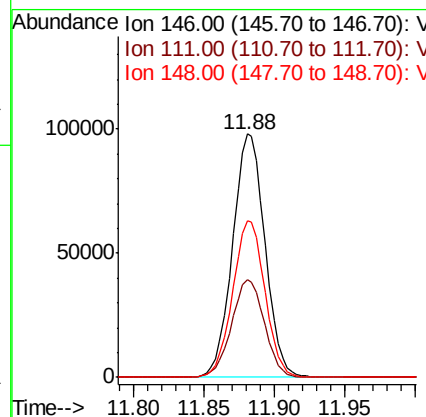
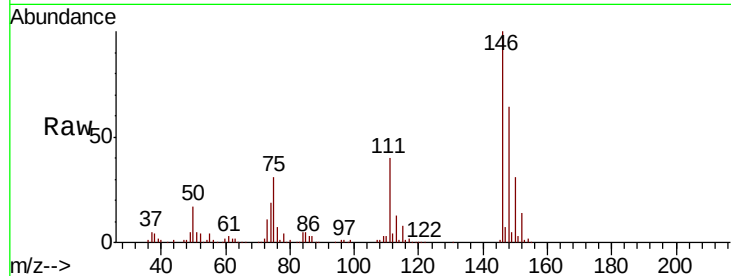




#65
 1,2-Dichlorobenzene
 Concen: 54.999 ug/L
 RT: 11.88 min Scan# 3330
 Delta R.T. -0.00 min
 Lab File: VU026719.D
 Acq: 12 Sep 2018 22:04

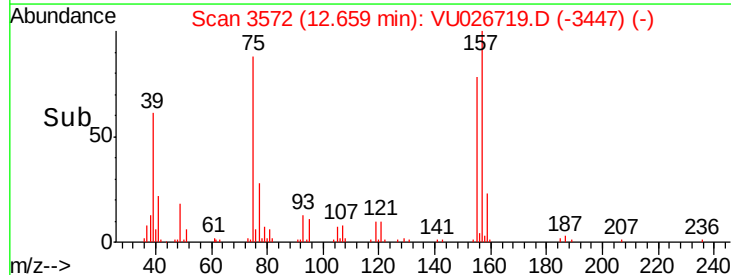
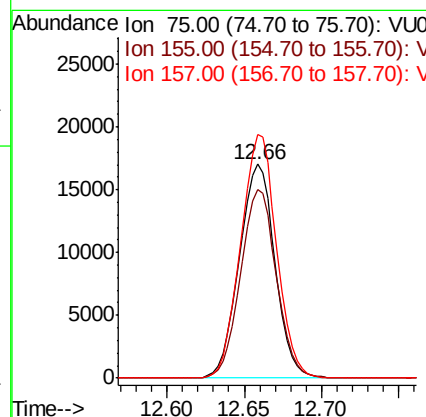
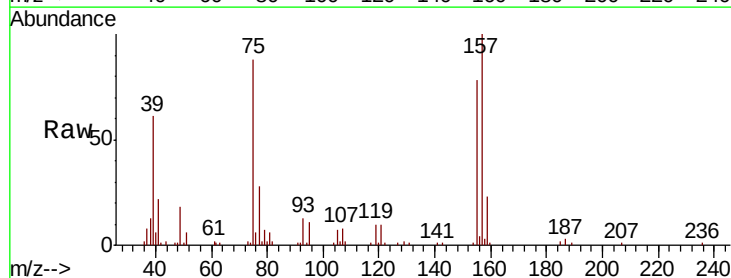
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

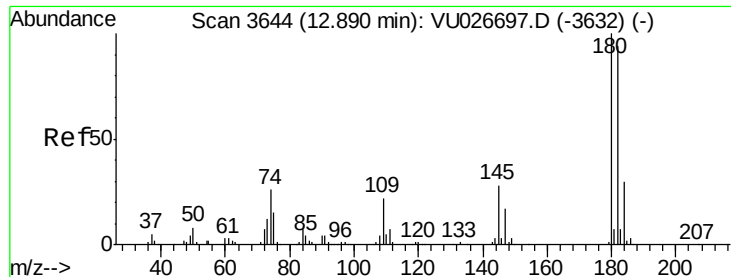
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.3	32.8	49.2
148	64.1	52.2	78.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 58.979 ug/L
 RT: 12.66 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VU026719.D
 Acq: 12 Sep 2018 22:04

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.4	69.3	103.9
157	113.9	93.4	140.0





#67

1,3,5-Trichlorobenzene

Concen: 53.190 ug/L

RT: 12.89 min Scan# 3644

Delta R.T. 0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

Tgt Ion:180 Resp: 114114

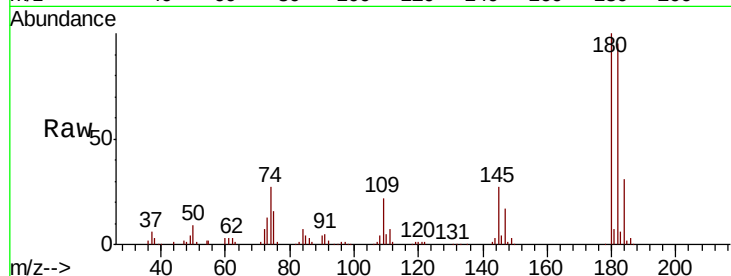
Ion Ratio Lower Upper

180 100

182 95.4 76.8 115.2

184 30.5 24.2 36.2

145 27.6 21.4 32.2

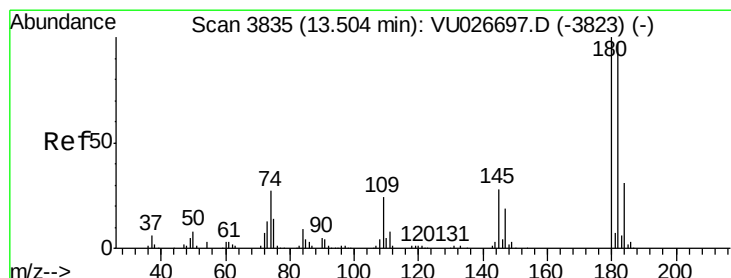
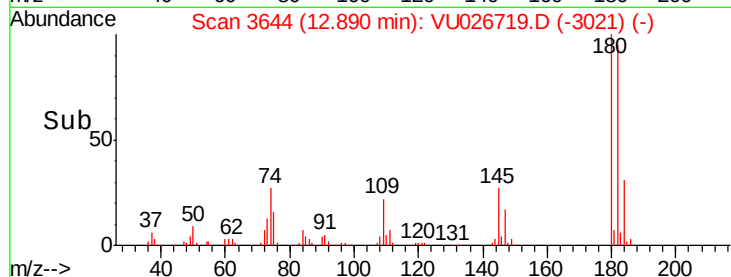
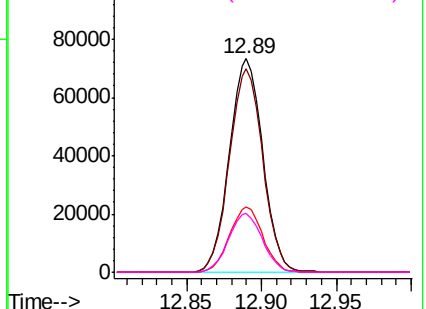


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68

1,2,4-trichlorobenzene

Concen: 53.625 ug/L

RT: 13.50 min Scan# 3835

Delta R.T. -0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

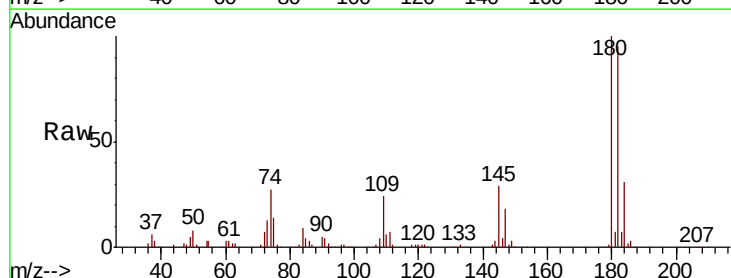
Tgt Ion:180 Resp: 99995

Ion Ratio Lower Upper

180 100

182 95.3 76.0 114.0

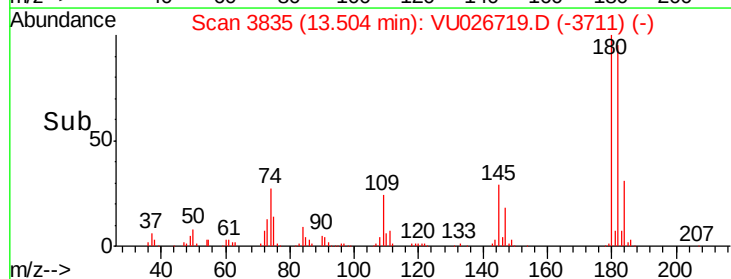
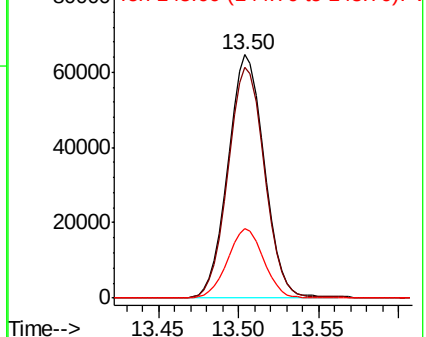
145 28.5 23.4 35.0

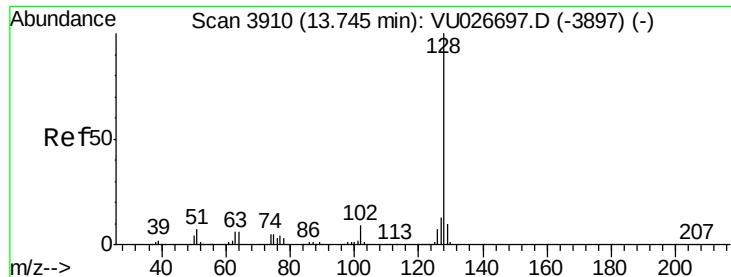


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 59.720 ug/L

RT: 13.75 min Scan# 3910

Delta R.T. 0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

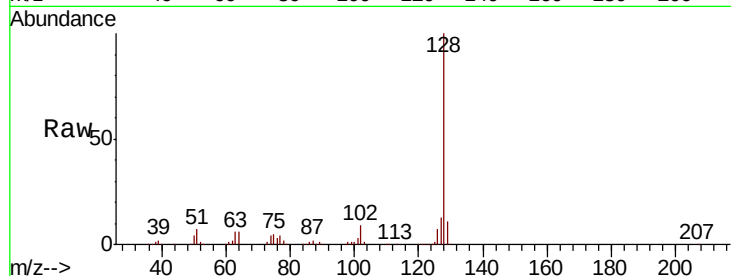
Tgt Ion:128 Resp: 341237

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

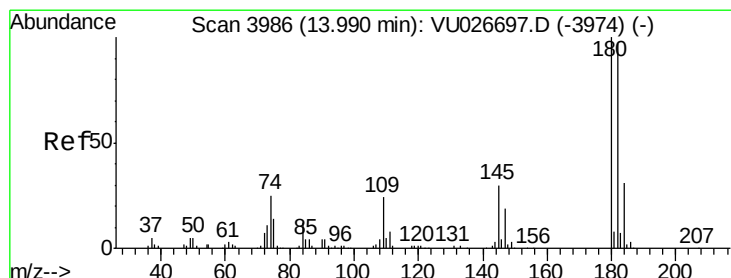
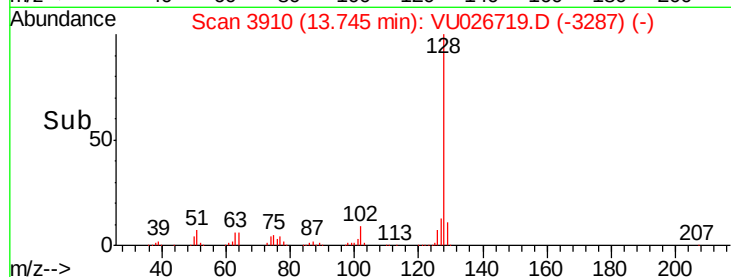
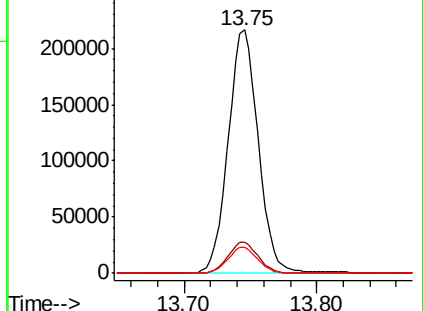
129 10.7 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 54.689 ug/L

RT: 13.99 min Scan# 3986

Delta R.T. 0.00 min

Lab File: VU026719.D

Acq: 12 Sep 2018 22:04

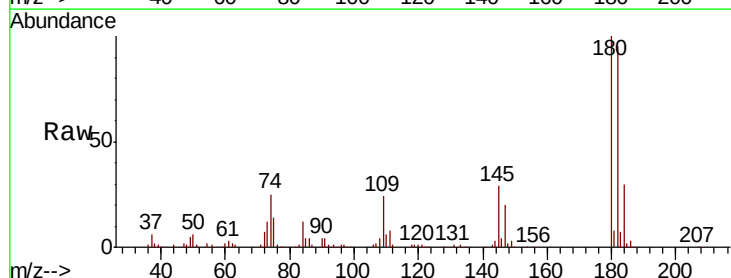
Tgt Ion:180 Resp: 110464

Ion Ratio Lower Upper

180 100

182 96.1 76.7 115.1

145 29.9 23.0 34.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

