

Data File : VU027843.D
Acq On : 26 Oct 2018 18:57
Operator : MD/SY
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

Quant Time: Oct 27 01:50:31 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM102218WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Oct 27 01:41:17 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	112563	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	106785	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	51835	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	32825	37.48	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	74.96%
7) Chloroethane-d5	1.68	69	27764	41.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	82.36%
11) 1,1-Dichloroethene-d2	2.28	63	69069	43.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.58%
21) 2-Butanone-d5	4.18	46	74244	99.47	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	99.47%
24) Chloroform-d	4.65	84	70676	44.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.78%
26) 1,2-Dichloroethane-d4	5.31	65	49331	45.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.50%
32) Benzene-d6	5.34	84	133010	43.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.48%
36) 1,2-Dichloropropane-d6	6.33	67	48541	44.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	89.42%
41) Toluene-d8	7.57	98	122243	43.58	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.16%
43) trans-1,3-Dichloropropene-	7.85	79	23072	43.76	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.52%
47) 2-Hexanone-d5	8.31	63	55670	100.20	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.20%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	66973	47.77	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.54%
64) 1,2-Dichlorobenzene-d4	11.86	152	47610	44.84	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.68%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	45035	49.230 ug/L	99
3) Chloromethane	1.33	50	47922	44.719 ug/L	99
5) Vinyl chloride	1.40	62	47921	47.144 ug/L	99
6) Bromomethane	1.62	94	9664	18.855 ug/L	98
8) Chloroethane	1.70	64	28769	52.437 ug/L	99
9) Trichlorofluoromethane	1.89	101	62141	50.738 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	32504	48.465 ug/L	98
12) 1,1-Dichloroethene	2.29	96	30768	49.055 ug/L	92
13) Acetone	2.32	43	46879	90.171 ug/L	99
14) Carbon disulfide	2.48	76	101427	46.441 ug/L	99
15) Methyl Acetate	2.62	43	56116	51.290 ug/L	100
16) Methylene chloride	2.70	84	39050	50.401 ug/L	97
17) trans-1,2-Dichloroethene	2.99	96	34697	50.008 ug/L	94
18) Methyl tert-butyl Ether	3.00	73	130561	50.345 ug/L	99
19) 1,1-Dichloroethane	3.45	63	76825	51.025 ug/L	98
20) cis-1,2-Dichloroethene	4.23	96	40399	49.219 ug/L	98
22) 2-Butanone	4.26	43	78847	101.925 ug/L	100

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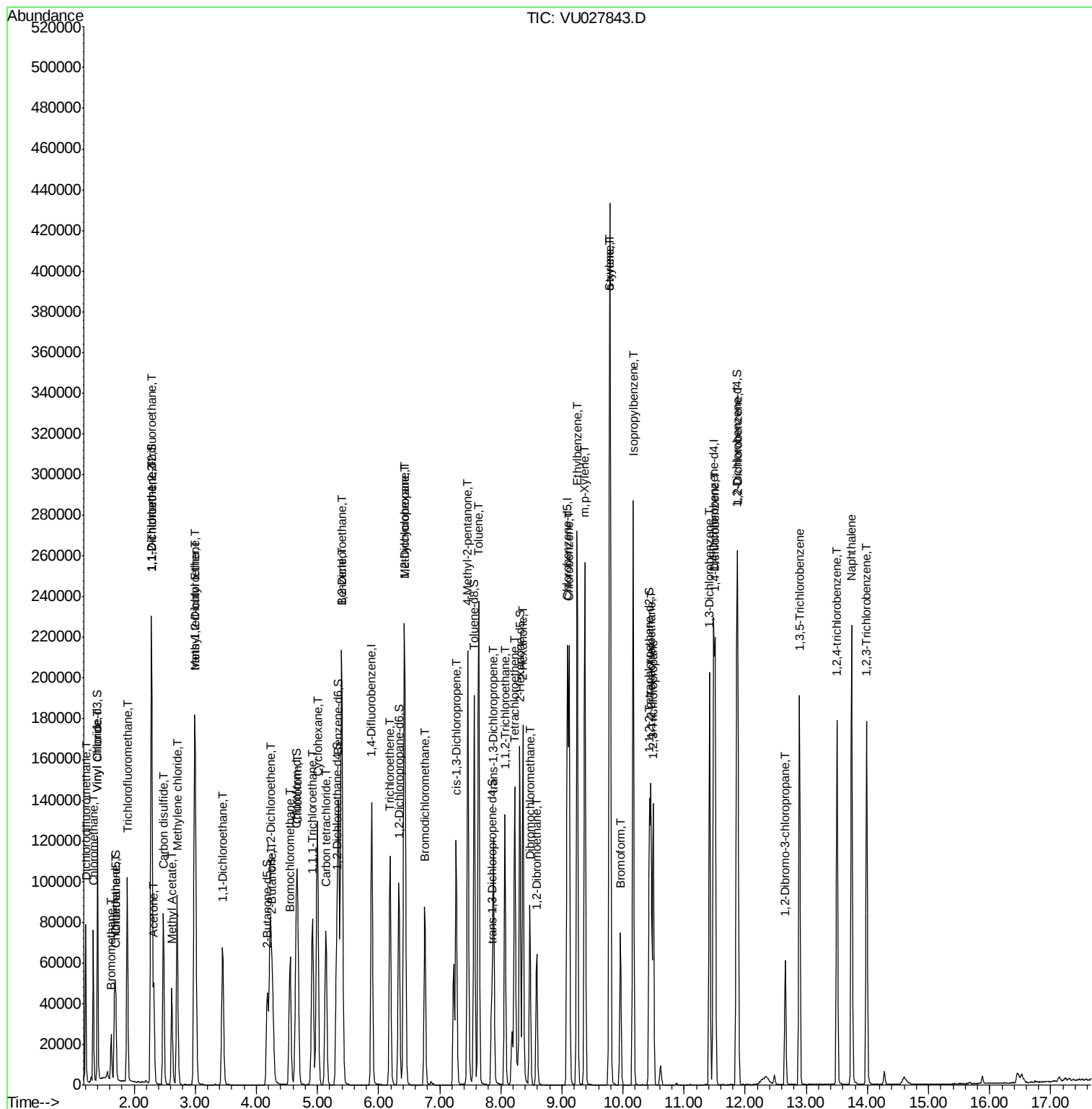
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	19803	51.669	ug/L	95
25) Chloroform	4.67	83	75888	51.938	ug/L	100
27) 1,2-Dichloroethane	5.40	62	64523	50.884	ug/L	100
29) Cyclohexane	5.00	56	73963	48.323	ug/L	100
30) 1,1,1-Trichloroethane	4.92	97	64474	49.811	ug/L	100
31) Carbon tetrachloride	5.14	117	55688	47.810	ug/L	98
33) Benzene	5.39	78	161965	50.985	ug/L	100
34) Trichloroethene	6.19	95	39868	50.131	ug/L	99
35) Methylcyclohexane	6.42	83	64856	47.155	ug/L	99
37) 1,2-Dichloropropane	6.43	63	47480	50.585	ug/L	99
38) Bromodichloromethane	6.76	83	56639	48.559	ug/L	96
39) cis-1,3-Dichloropropene	7.27	75	71016	49.138	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	155089	102.809	ug/L	99
42) Toluene	7.64	91	168653	50.694	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	65225	47.710	ug/L	98
45) 1,1,2-Trichloroethane	8.07	97	39198	50.559	ug/L	98
46) Tetrachloroethene	8.23	164	30623	49.861	ug/L	97
48) 2-Hexanone	8.36	43	120347	102.872	ug/L	98
49) Dibromochloromethane	8.48	129	43723	47.593	ug/L	100
50) 1,2-Dibromoethane	8.59	107	42308	51.128	ug/L	96
51) Chlorobenzene	9.12	112	102937	50.468	ug/L	99
52) Ethylbenzene	9.25	91	188353	50.050	ug/L	99
53) m,p-Xylene	9.38	106	66540	48.945	ug/L	92
54) o-xylene	9.78	106	67765	50.006	ug/L	97
55) Styrene	9.79	104	117092	50.763	ug/L	96
56) Isopropylbenzene	10.17	105	179704	50.073	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	70042	50.804	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	55625	50.145	ug/L	99
61) Bromoform	9.96	173	32432	46.936	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	78792	50.693	ug/L	97
63) 1,4-Dichlorobenzene	11.51	146	78213	49.350	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	80262	50.206	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	15625	46.906	ug/L	93
67) 1,3,5-Trichlorobenzene	12.89	180	58947	49.036	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	53096	49.753	ug/L	99
69) Naphthalene	13.74	128	174771	50.705	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	54430	48.800	ug/L	100

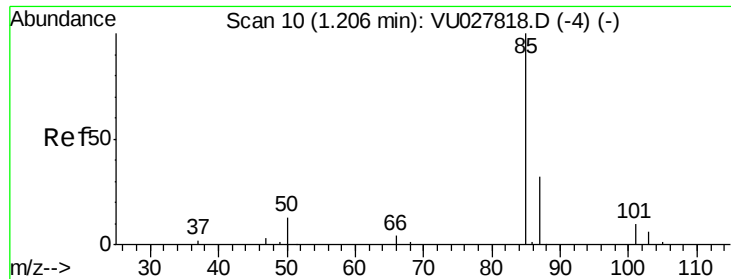
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 49.230 ug/L

RT: 1.21 min Scan# 11

Delta R.T. 0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

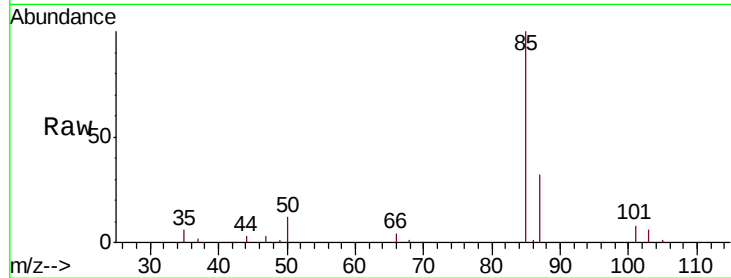
VSTD05034

Tgt Ion: 85 Resp: 45035

Ion Ratio Lower Upper

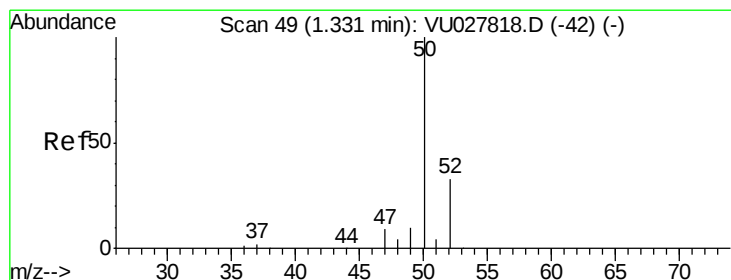
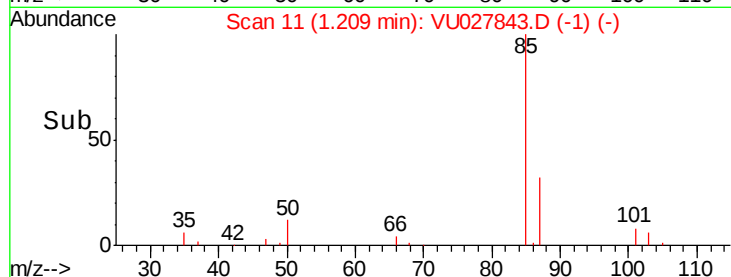
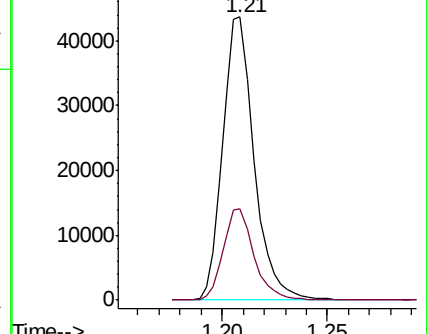
85 100

87 31.8 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: 44.719 ug/L

RT: 1.33 min Scan# 49

Delta R.T. -0.00 min

Lab File: VU027843.D

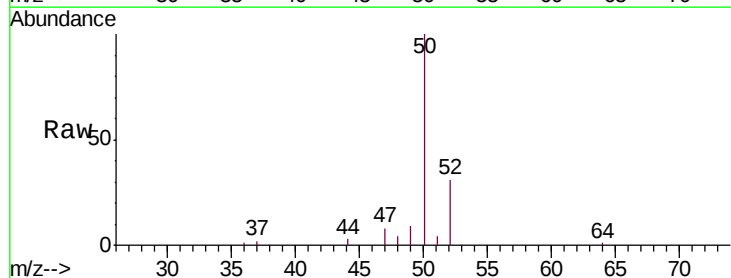
Acq: 26 Oct 2018 18:57

Tgt Ion: 50 Resp: 47922

Ion Ratio Lower Upper

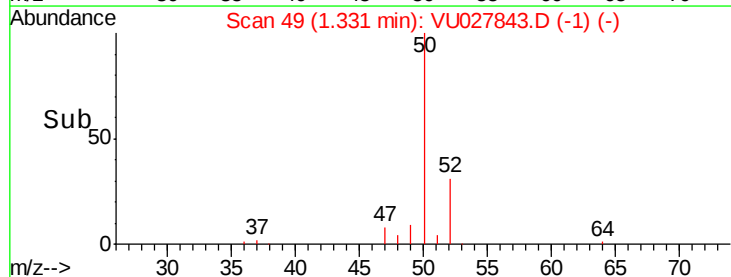
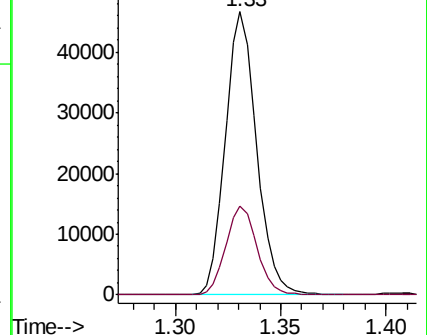
50 100

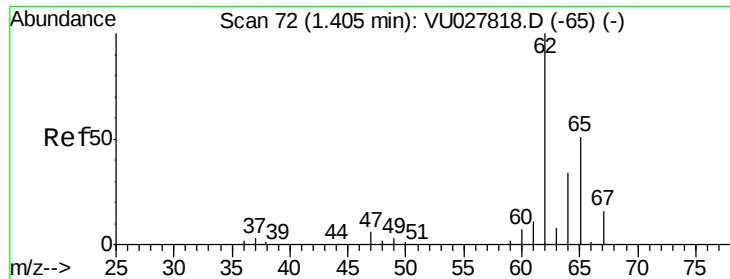
52 31.3 22.3 41.5



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 47.144 ug/L

RT: 1.40 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

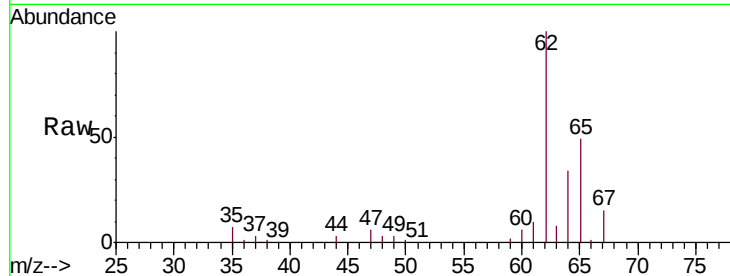
VSTD05034

Tgt Ion: 62 Resp: 47921

Ion Ratio Lower Upper

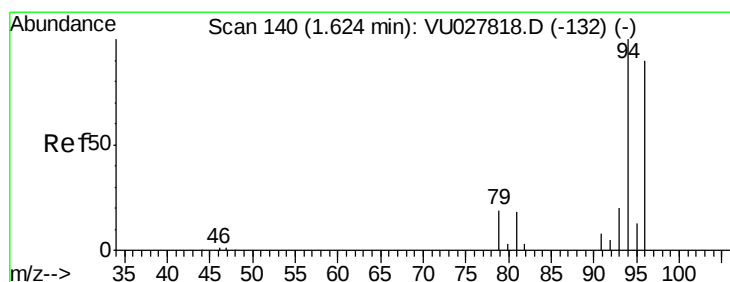
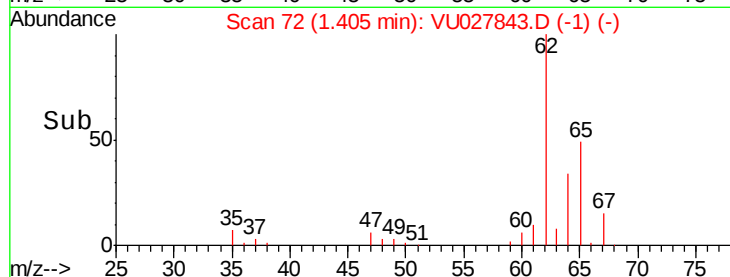
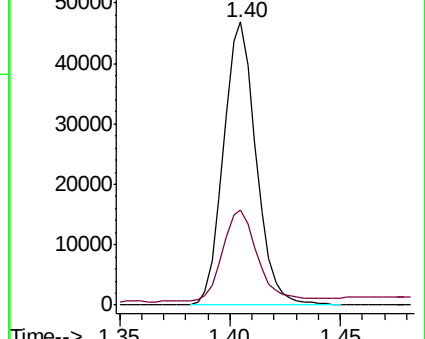
62 100

64 33.6 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 18.855 ug/L

RT: 1.62 min Scan# 140

Delta R.T. -0.00 min

Lab File: VU027843.D

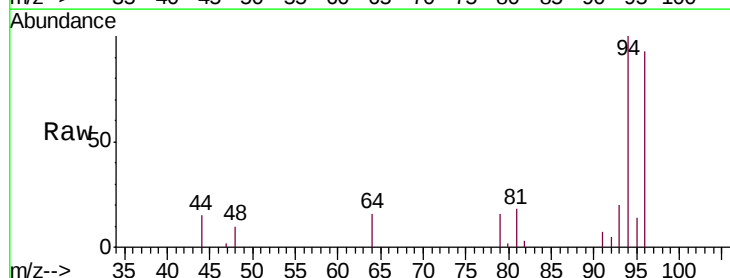
Acq: 26 Oct 2018 18:57

Tgt Ion: 94 Resp: 9664

Ion Ratio Lower Upper

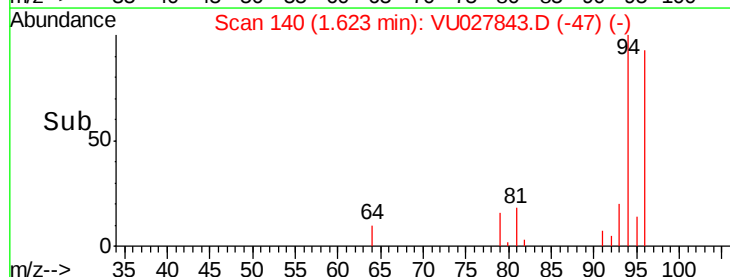
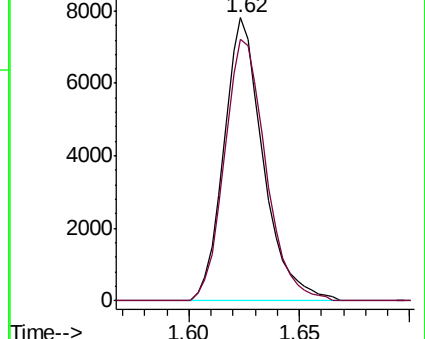
94 100

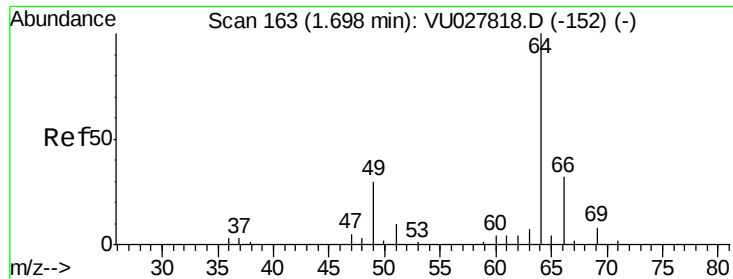
96 92.5 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 52.437 ug/L

RT: 1.70 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

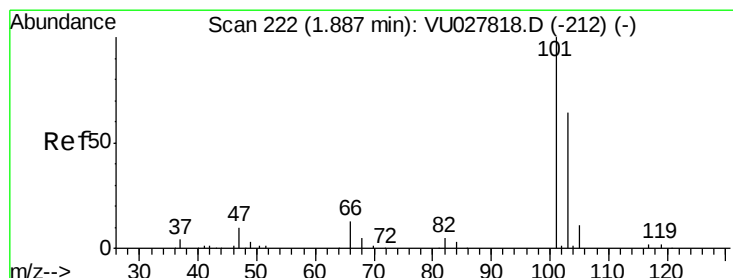
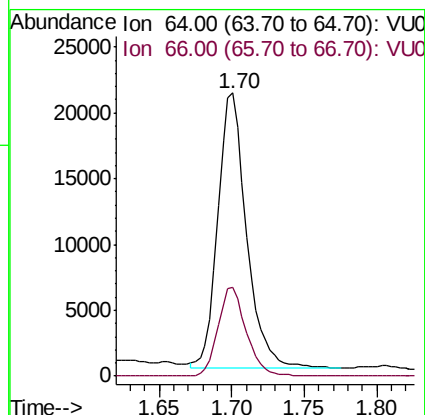
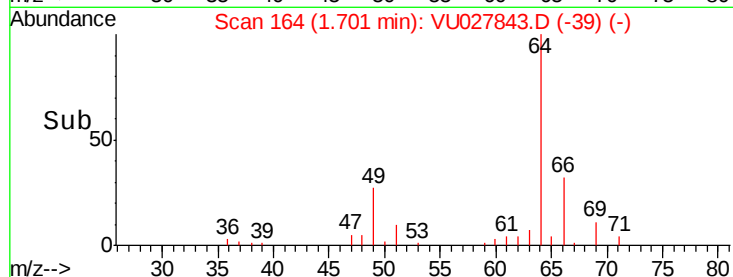
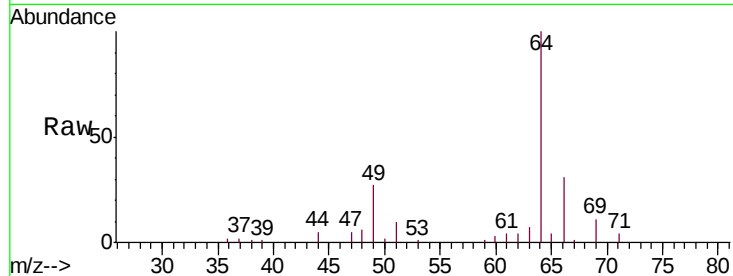
VSTD05034

Tgt Ion: 64 Resp: 28769

Ion Ratio Lower Upper

64 100

66 31.5 22.6 42.0



#9

Trichlorofluoromethane

Concen: 50.738 ug/L

RT: 1.89 min Scan# 222

Delta R.T. -0.00 min

Lab File: VU027843.D

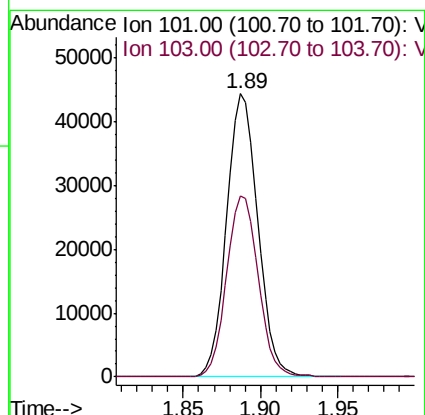
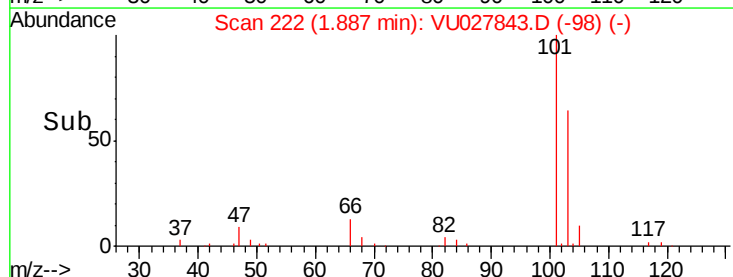
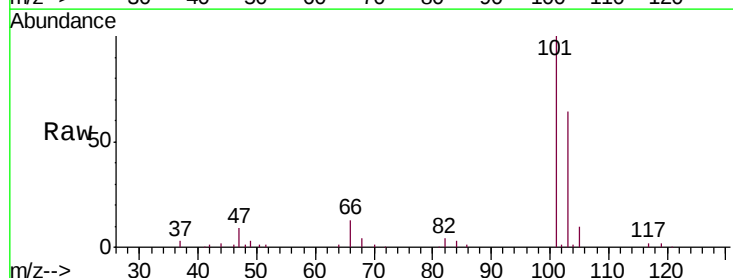
Acq: 26 Oct 2018 18:57

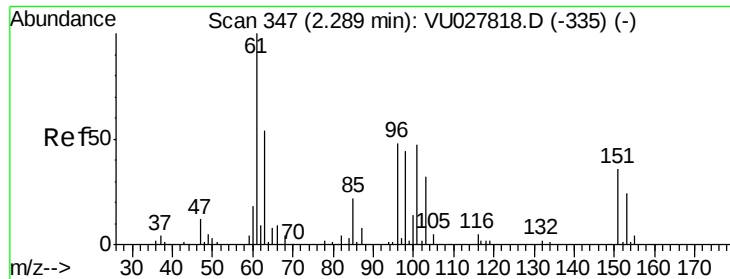
Tgt Ion: 101 Resp: 62141

Ion Ratio Lower Upper

101 100

103 64.8 51.0 76.4





#10

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

Concen: 48.465 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.00 min

Lab File: VU027843.D

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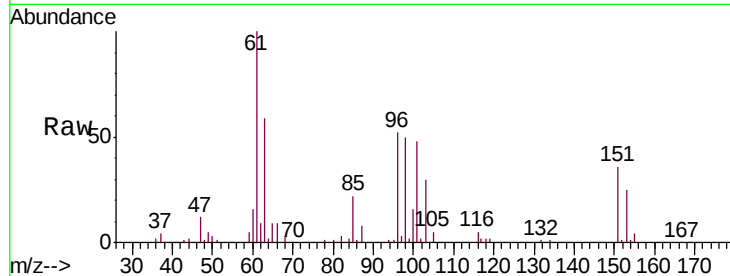
Tgt Ion:101 Resp: 32504

Ion Ratio Lower Upper

101 100

85 45.6 36.7 55.1

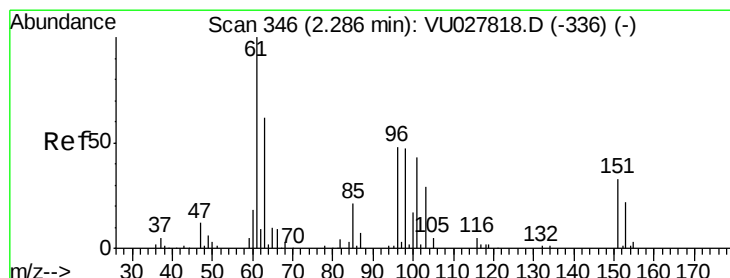
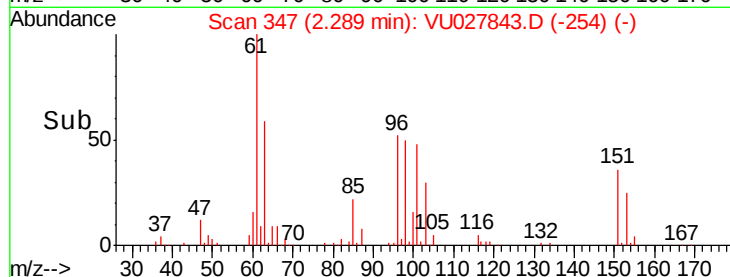
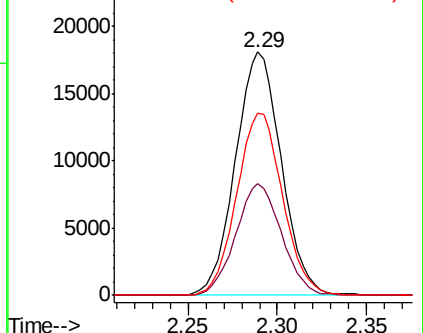
151 75.2 62.0 93.0



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: 49.055 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

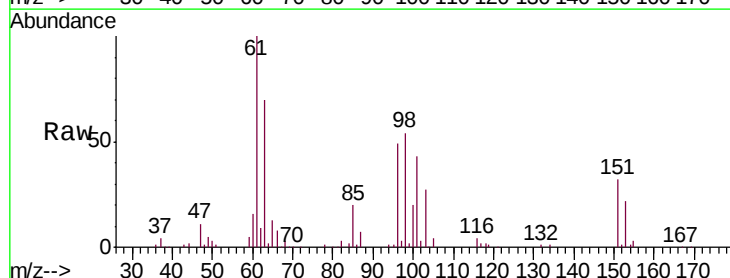
Tgt Ion: 96 Resp: 30768

Ion Ratio Lower Upper

96 100

61 203.2 137.3 255.1

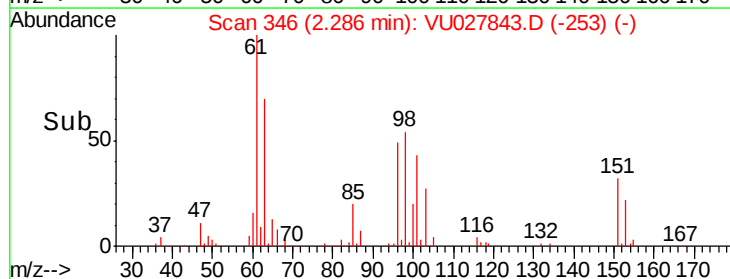
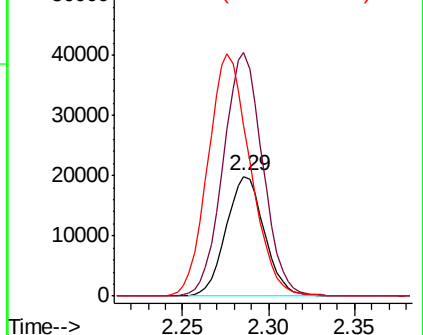
63 142.2 109.8 204.0

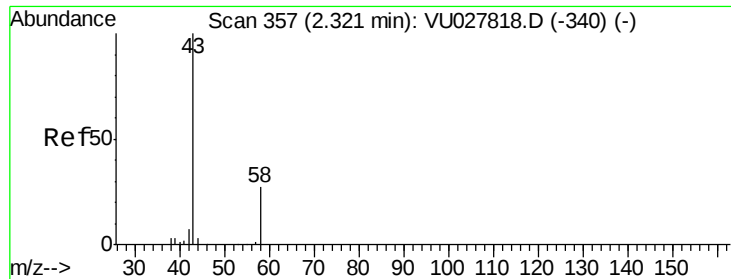


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 90.171 ug/L

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

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ClientSampleId :

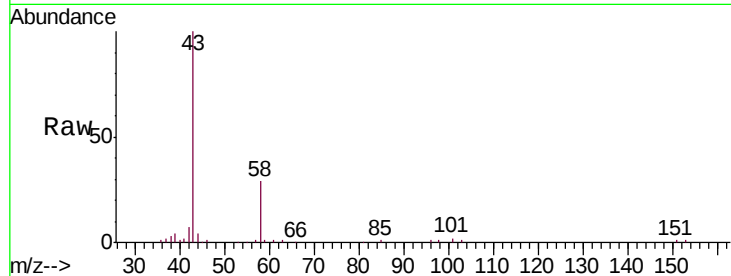
VSTD05034

Tgt Ion: 43 Resp: 46879

Ion Ratio Lower Upper

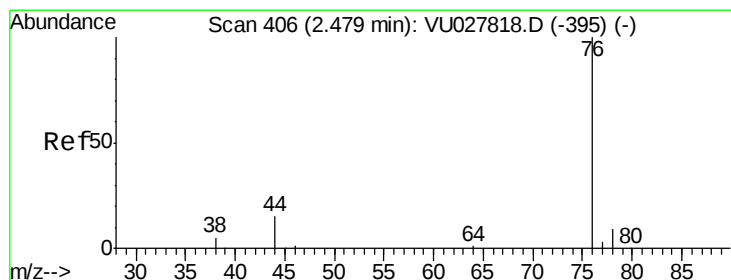
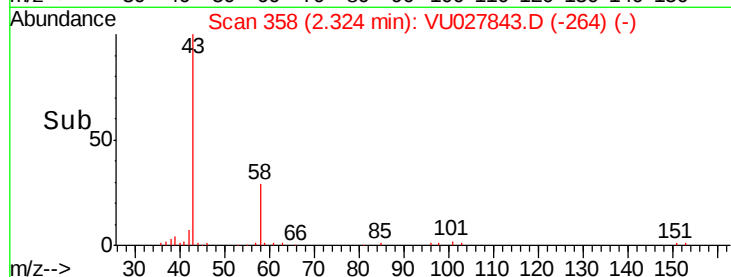
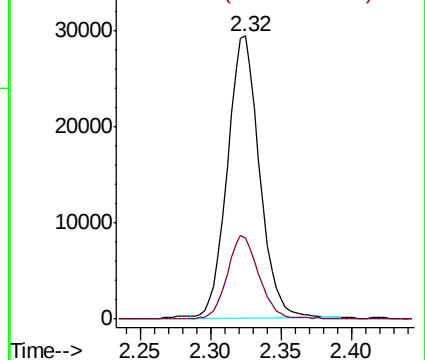
43 100

58 29.1 0.0 57.4



Abundance Ion 43.00 (42.70 to 43.70): VU027818.D (-340) (-)

Ion 58.00 (57.70 to 58.70): VU027818.D (-340) (-)



#14

Carbon disulfide

Concen: 46.441 ug/L

RT: 2.48 min Scan# 406

Delta R.T. -0.00 min

Lab File: VU027843.D

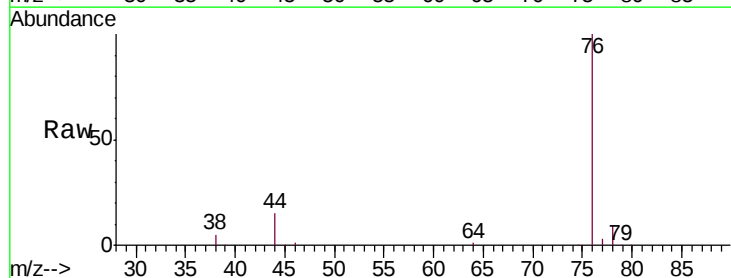
Acq: 26 Oct 2018 18:57

Tgt Ion: 76 Resp: 101427

Ion Ratio Lower Upper

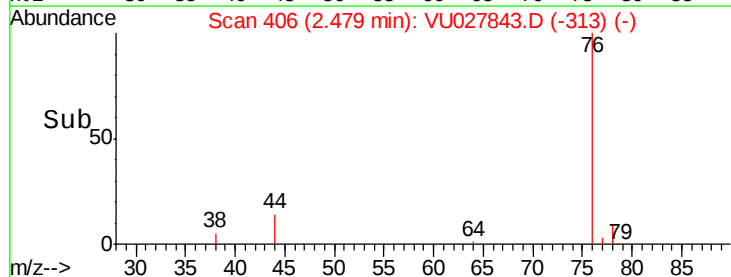
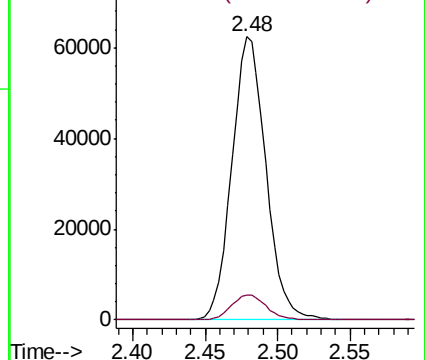
76 100

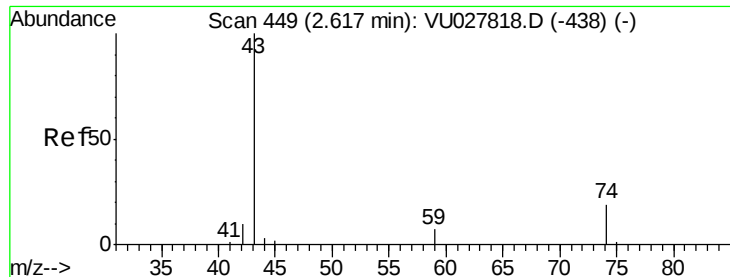
78 9.0 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VU027818.D (-395) (-)

Ion 78.00 (77.70 to 78.70): VU027818.D (-395) (-)





#15

Methyl Acetate

Concen: 51.290 ug/L

RT: 2.62 min Scan# 449

Delta R.T. -0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

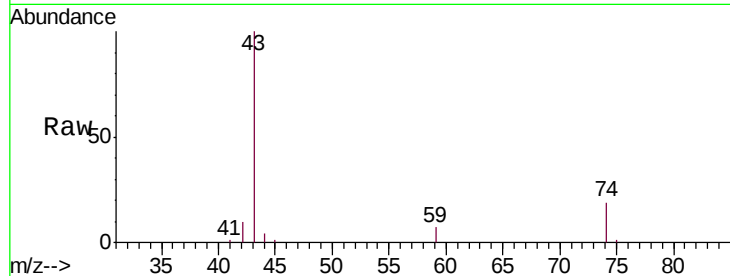
VSTD05034

Tgt Ion: 43 Resp: 56116

Ion Ratio Lower Upper

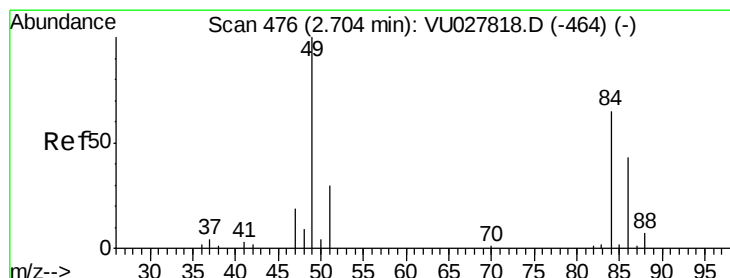
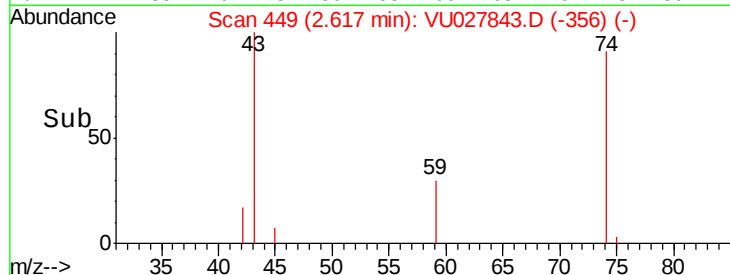
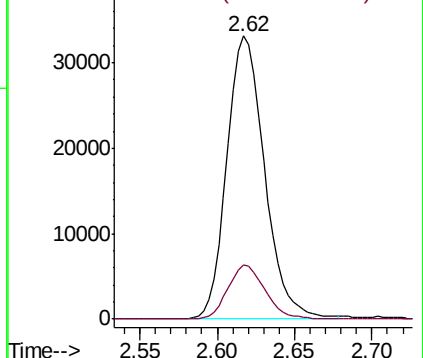
43 100

74 18.8 15.1 22.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 50.401 ug/L

RT: 2.70 min Scan# 476

Delta R.T. -0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

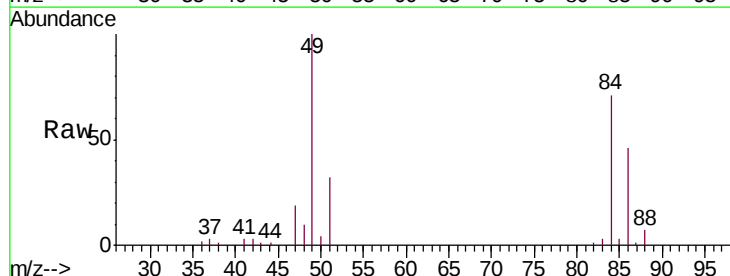
Tgt Ion: 84 Resp: 39050

Ion Ratio Lower Upper

84 100

86 64.3 42.8 79.6

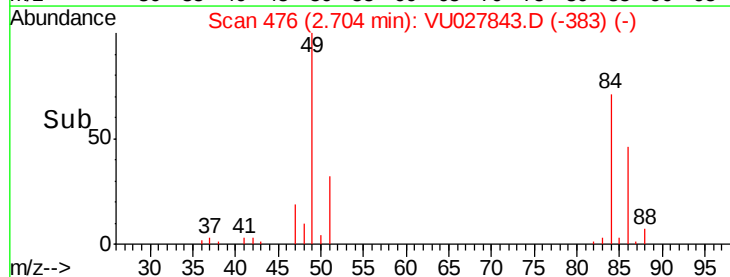
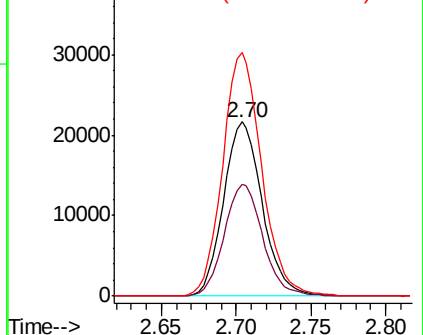
49 140.0 100.0 185.6

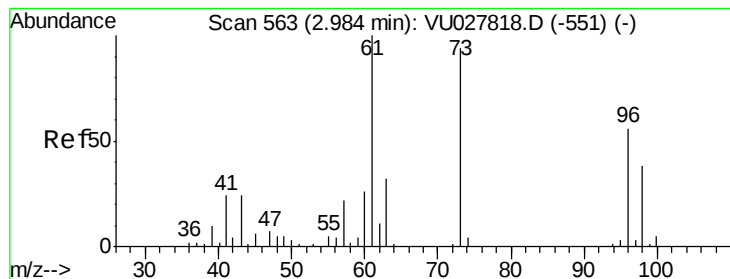


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 50.008 ug/L

RT: 2.99 min Scan# 564

Delta R.T. 0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

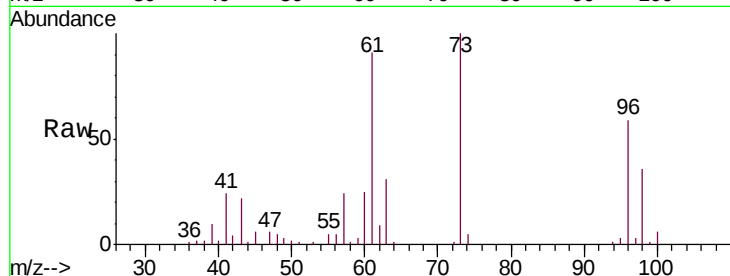
Tgt Ion: 96 Resp: 34697

Ion Ratio Lower Upper

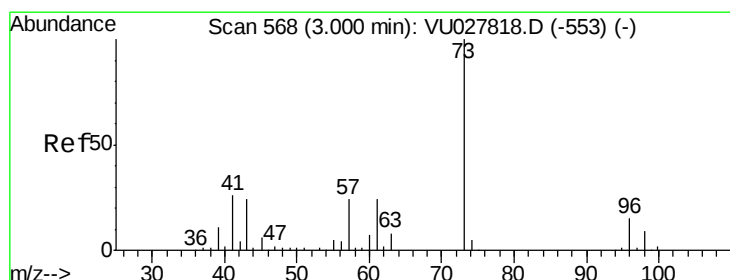
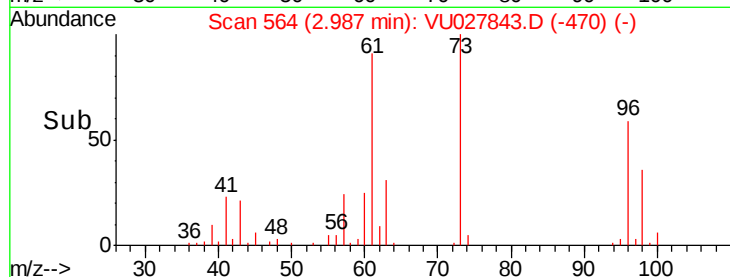
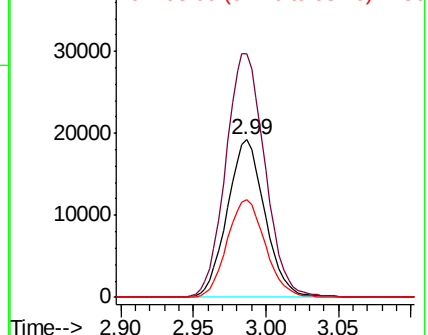
96 100

61 154.8 114.7 212.9

98 62.0 42.2 78.4



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: 50.345 ug/L

RT: 3.00 min Scan# 569

Delta R.T. 0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

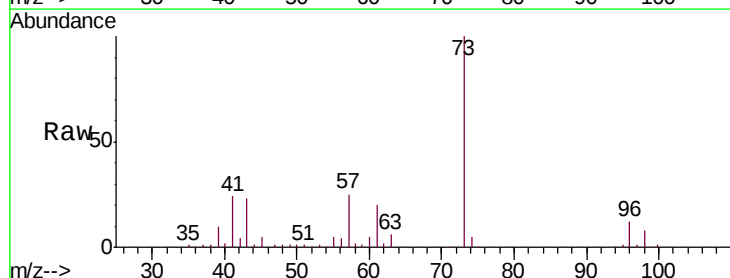
Tgt Ion: 73 Resp: 130561

Ion Ratio Lower Upper

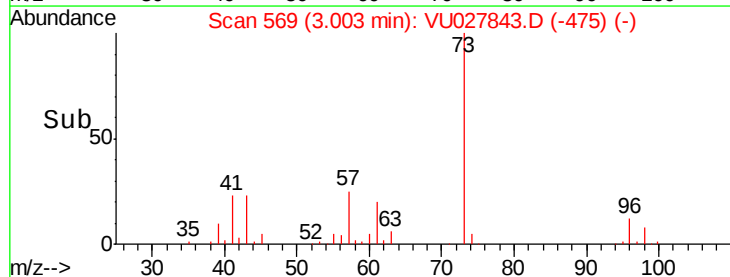
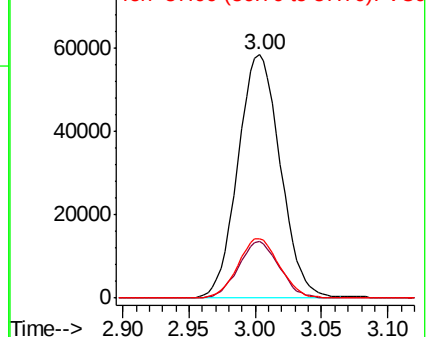
73 100

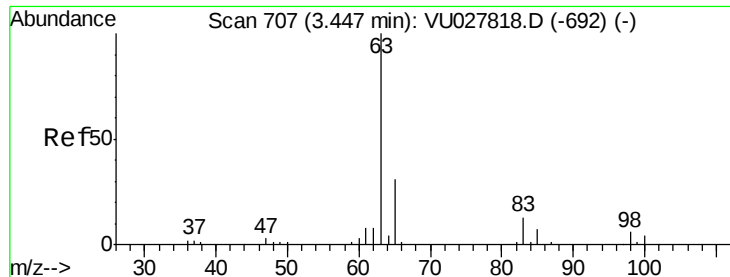
43 22.4 18.3 27.5

57 23.8 18.6 28.0



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

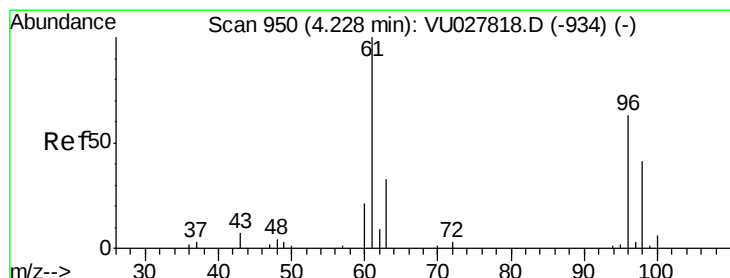
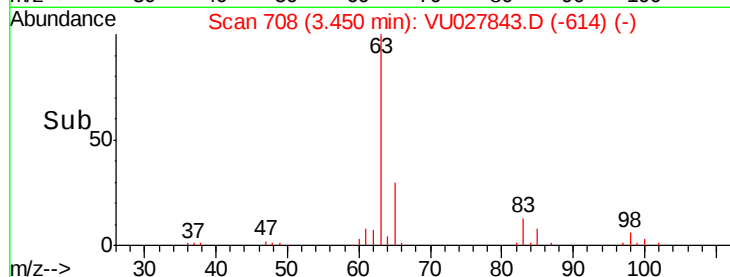
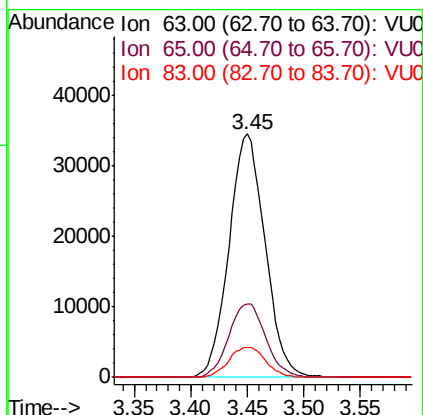
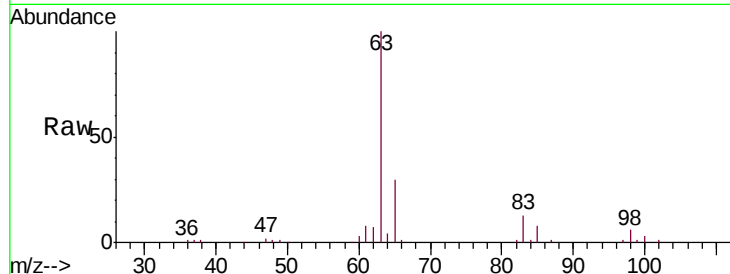




#19
 1,1-Dichloroethane
 Concen: 51.025 ug/L
 RT: 3.45 min Scan# 708
 Delta R.T. 0.00 min
 Lab File: VU027843.D
 Acq: 26 Oct 2018 18:57

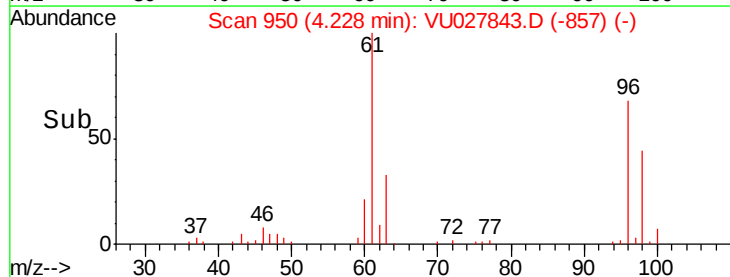
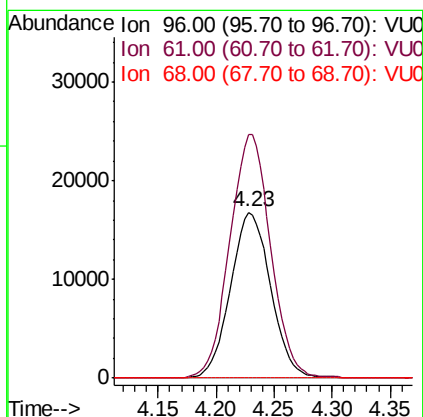
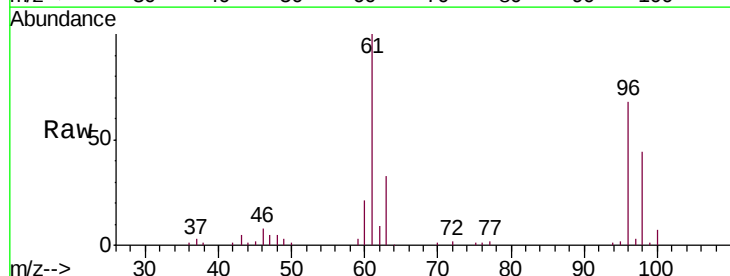
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

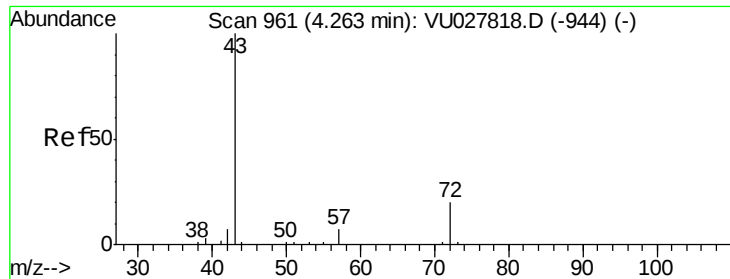
Tgt Ion: 63 Resp: 76825
 Ion Ratio Lower Upper
 63 100
 65 30.3 22.2 41.2
 83 12.5 9.2 17.2



#20
 cis-1,2-Dichloroethene
 Concen: 49.219 ug/L
 RT: 4.23 min Scan# 950
 Delta R.T. -0.00 min
 Lab File: VU027843.D
 Acq: 26 Oct 2018 18:57

Tgt Ion: 96 Resp: 40399
 Ion Ratio Lower Upper
 96 100
 61 146.7 104.2 193.4
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 101.925 ug/L

RT: 4.26 min Scan# 961

Delta R.T. -0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

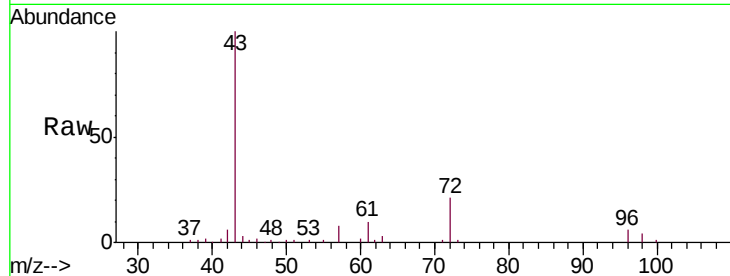
VSTD05034

Tgt Ion: 43 Resp: 78847

Ion Ratio Lower Upper

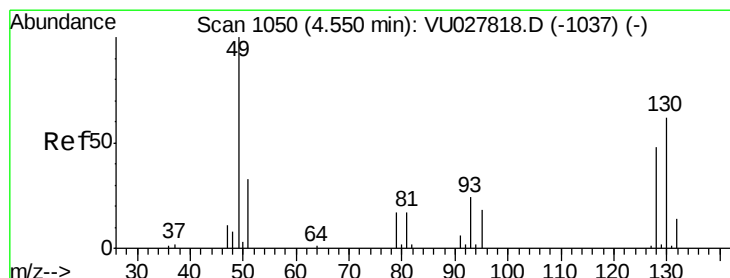
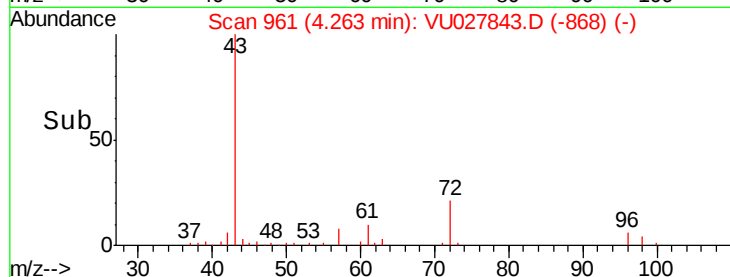
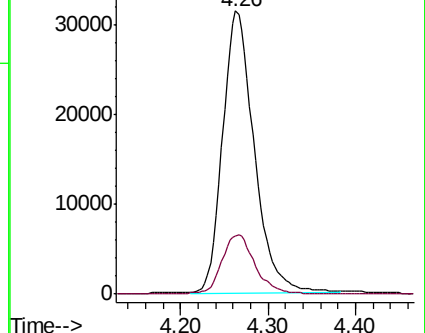
43 100

72 22.1 11.2 33.5



Abundance Ion 43.00 (42.70 to 43.70): VU027818.D (-944) (-)

Ion 72.00 (71.70 to 72.70): VU027818.D (-944) (-)



#23

Bromochloromethane

Concen: 51.669 ug/L

RT: 4.55 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

Tgt Ion: 128 Resp: 19803

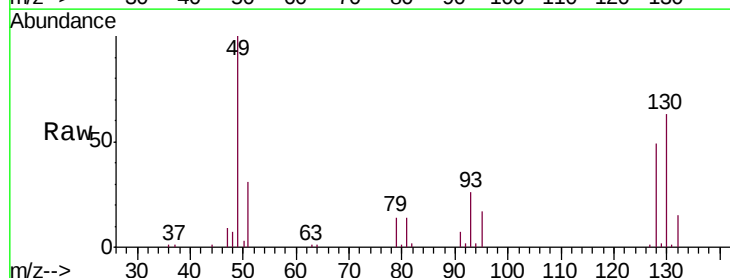
Ion Ratio Lower Upper

128 100

49 204.3 136.2 253.0

130 128.7 86.0 159.6

51 62.8 48.8 73.2

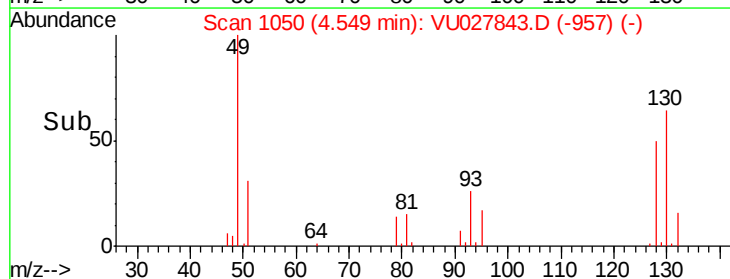
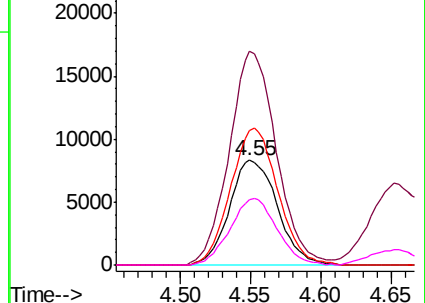


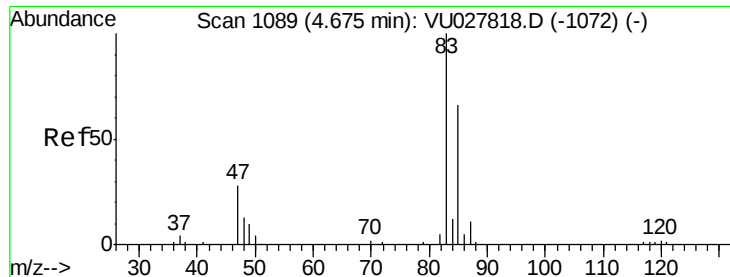
Abundance Ion 128.00 (127.70 to 128.70): VU027818.D (-1037) (-)

Ion 49.00 (48.70 to 49.70): VU027818.D (-1037) (-)

Ion 130.00 (129.70 to 130.70): VU027818.D (-1037) (-)

Ion 51.00 (50.70 to 51.70): VU027818.D (-1037) (-)

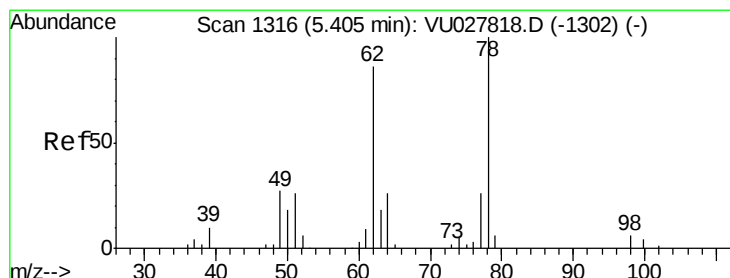
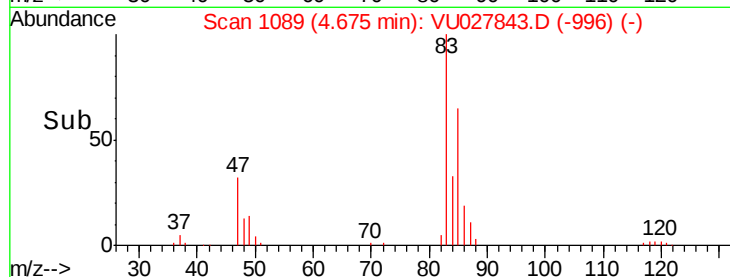
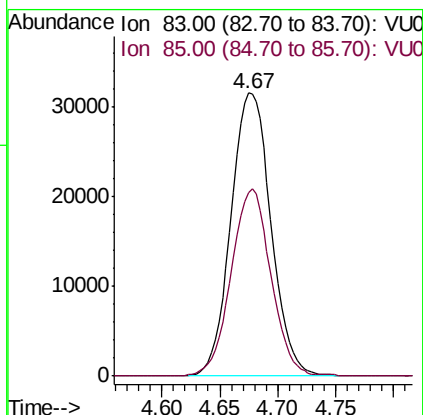
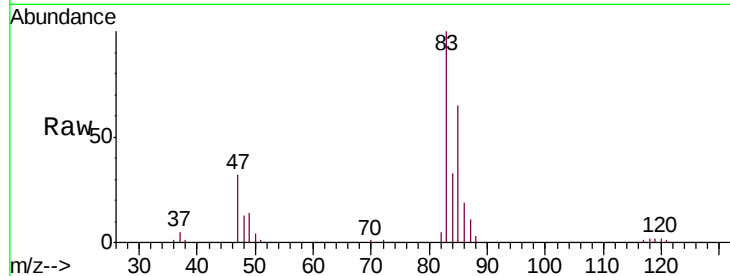




#25
Chloroform
Concen: 51.938 ug/L
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU027843.D
Acq: 26 Oct 2018 18:57

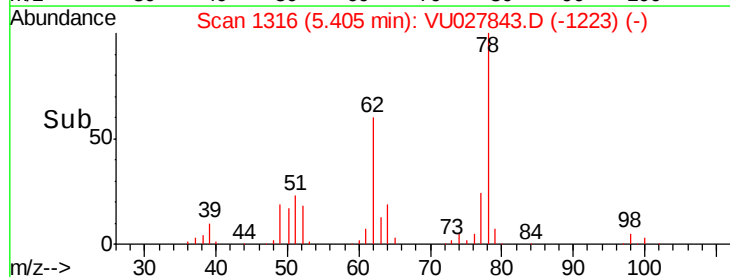
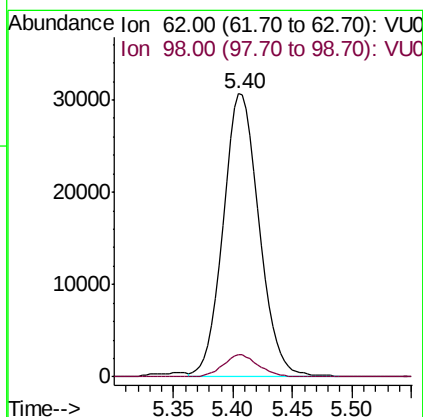
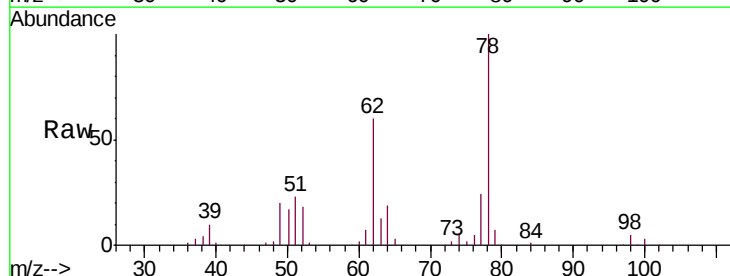
Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

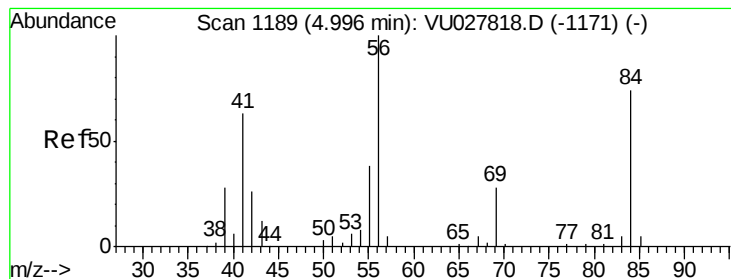
Tgt Ion: 83 Resp: 75888
Ion Ratio Lower Upper
83 100
85 65.0 45.4 84.4



#27
1,2-Dichloroethane
Concen: 50.884 ug/L
RT: 5.40 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VU027843.D
Acq: 26 Oct 2018 18:57

Tgt Ion: 62 Resp: 64523
Ion Ratio Lower Upper
62 100
98 7.7 6.3 9.5





#29

Cyclohexane

Concen: 48.323 ug/L

RT: 5.00 min Scan# 1190

Delta R.T. 0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

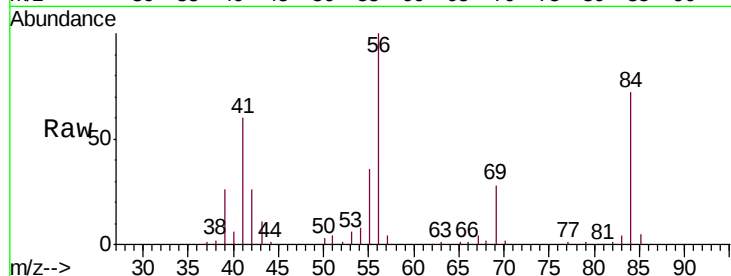
Tgt Ion: 56 Resp: 73963

Ion Ratio Lower Upper

56 100

69 28.3 22.5 33.7

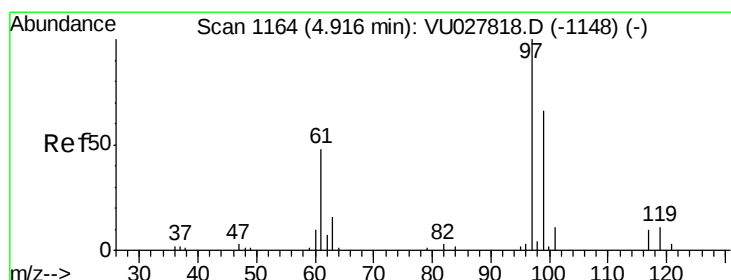
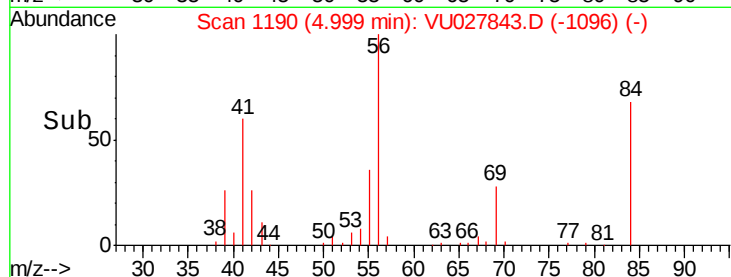
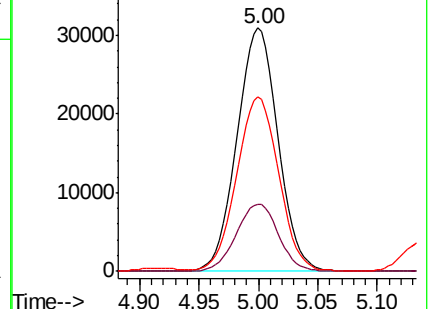
84 73.5 58.5 87.7



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: 49.811 ug/L

RT: 4.92 min Scan# 1165

Delta R.T. 0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

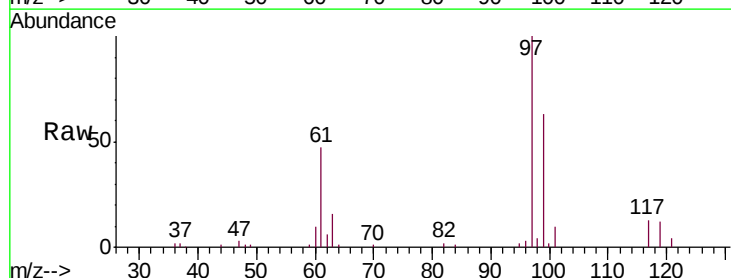
Tgt Ion: 97 Resp: 64474

Ion Ratio Lower Upper

97 100

99 64.3 51.7 77.5

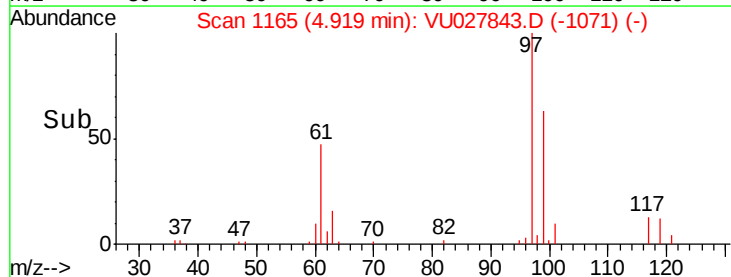
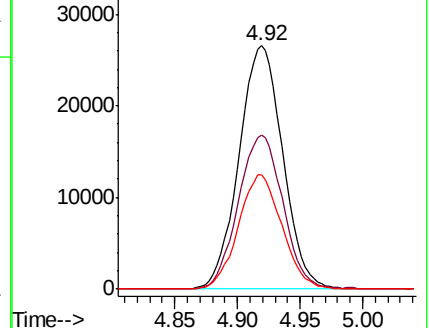
61 46.7 37.5 56.3

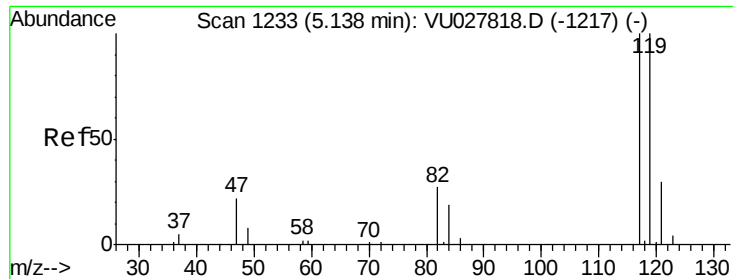


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

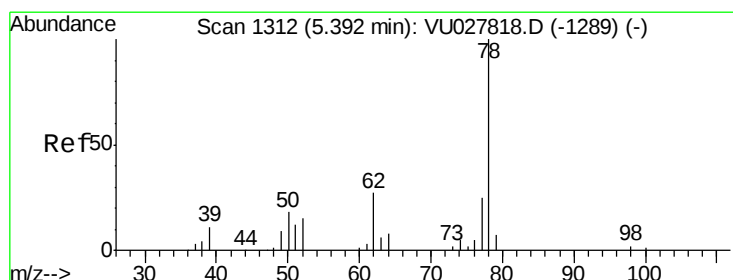
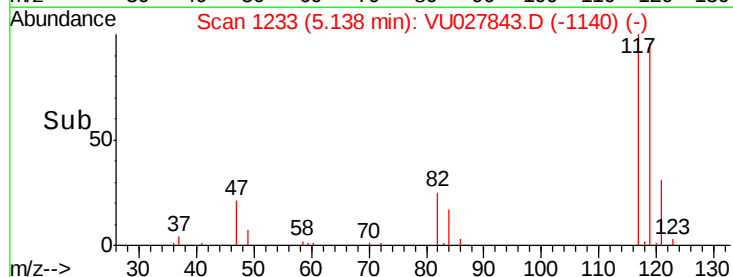
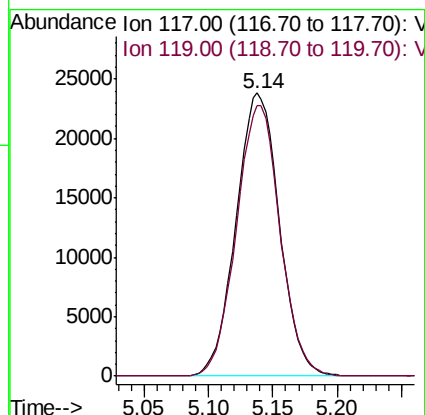
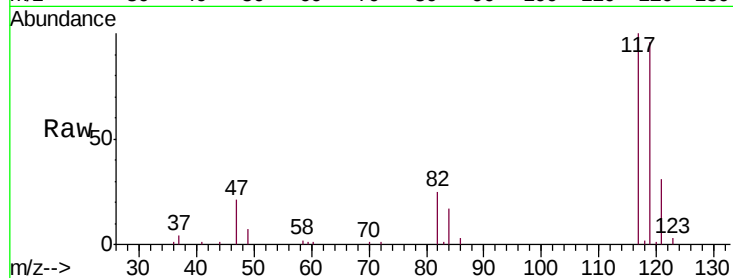




#31
Carbon tetrachloride
Concen: 47.810 ug/L
RT: 5.14 min Scan# 1233
Delta R.T. -0.00 min
Lab File: VU027843.D
Acq: 26 Oct 2018 18:57

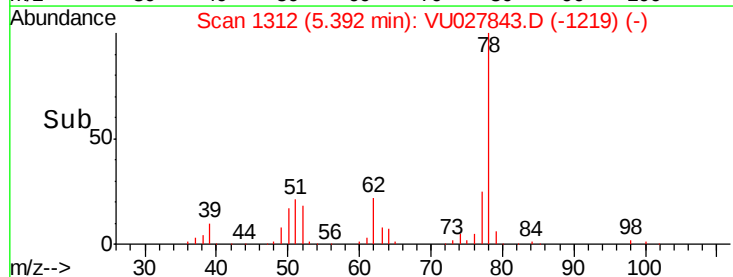
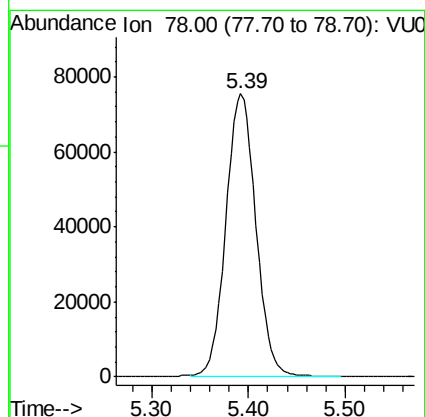
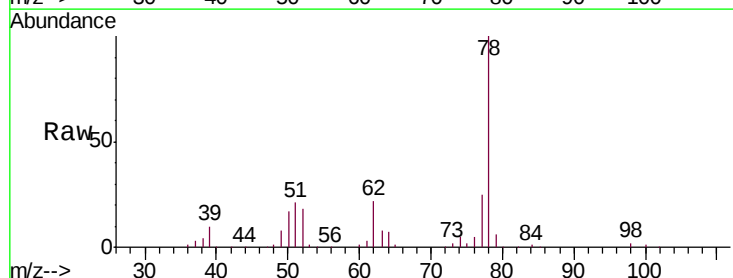
Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

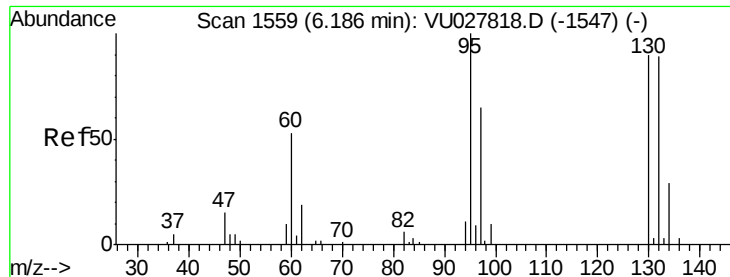
Tgt Ion:117 Resp: 55688
Ion Ratio Lower Upper
117 100
119 96.3 75.6 113.4



#33
Benzene
Concen: 50.985 ug/L
RT: 5.39 min Scan# 1312
Delta R.T. -0.00 min
Lab File: VU027843.D
Acq: 26 Oct 2018 18:57

Tgt Ion: 78 Resp: 161965





#34

Trichloroethene

Concen: 50.131 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

Tgt Ion: 95 Resp: 39868

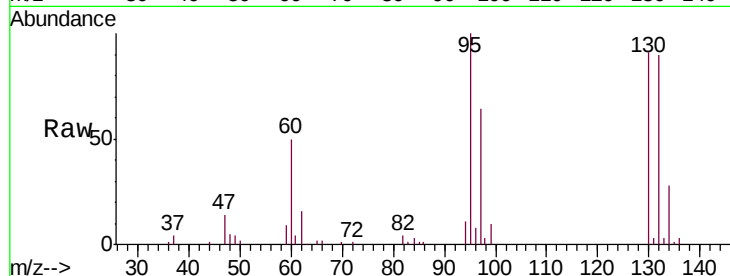
Ion Ratio Lower Upper

95 100

97 64.4 45.8 85.2

132 90.0 62.1 115.3

130 91.5 65.0 120.6

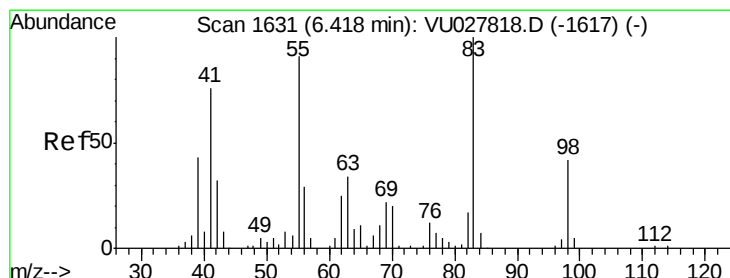
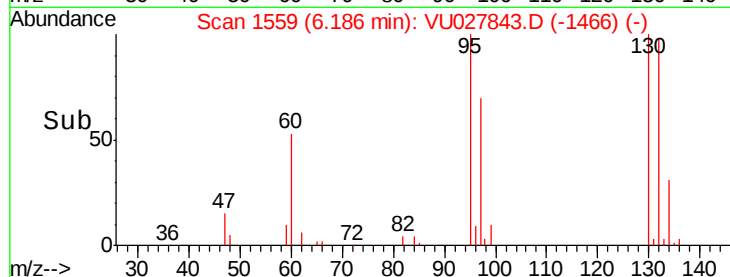
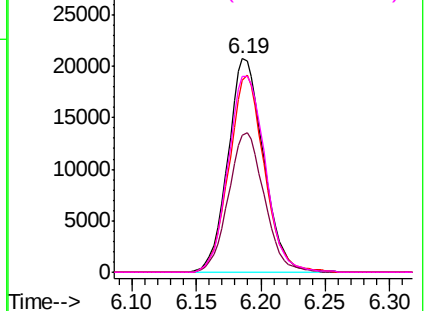


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 47.155 ug/L

RT: 6.42 min Scan# 1631

Delta R.T. -0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

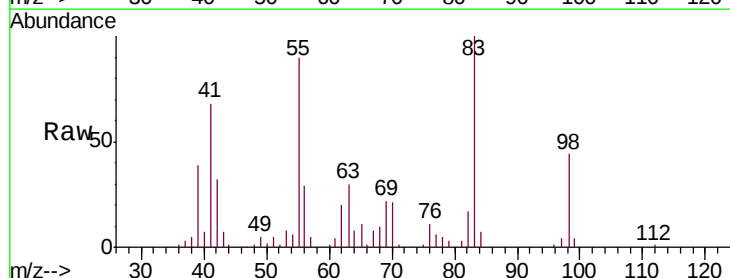
Tgt Ion: 83 Resp: 64856

Ion Ratio Lower Upper

83 100

55 88.6 71.9 107.9

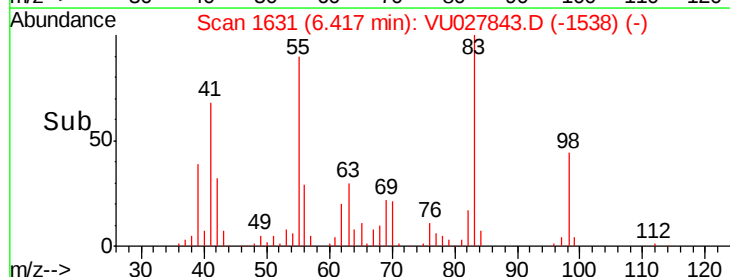
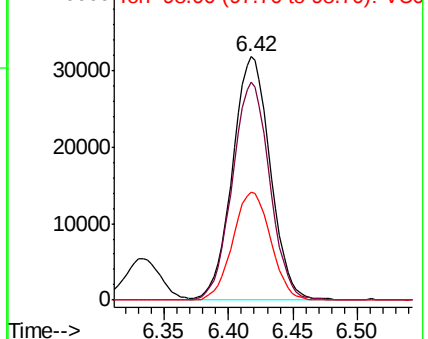
98 44.3 34.6 52.0

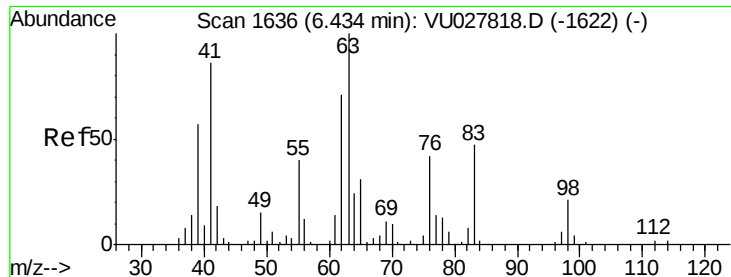


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

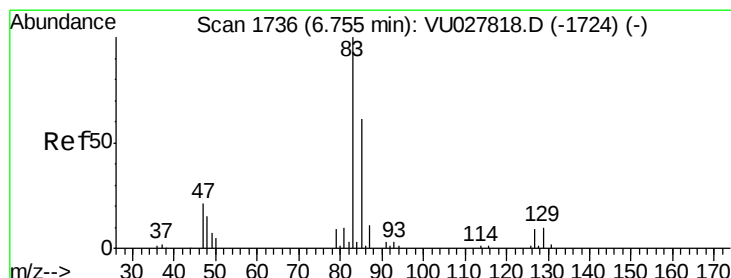
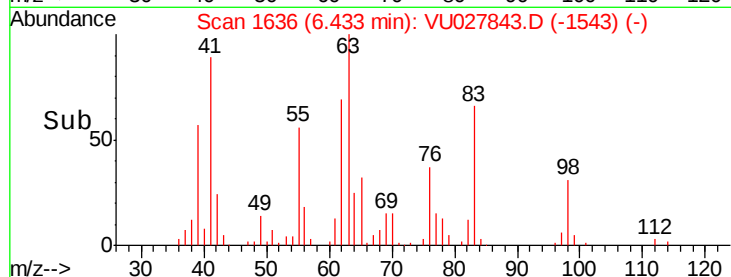
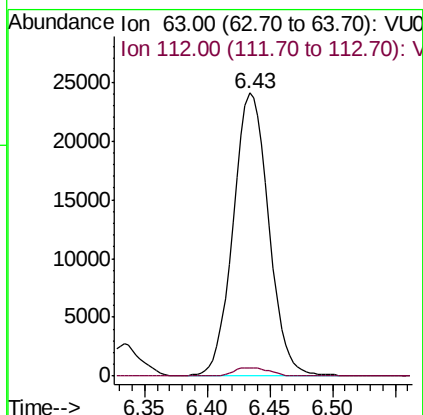
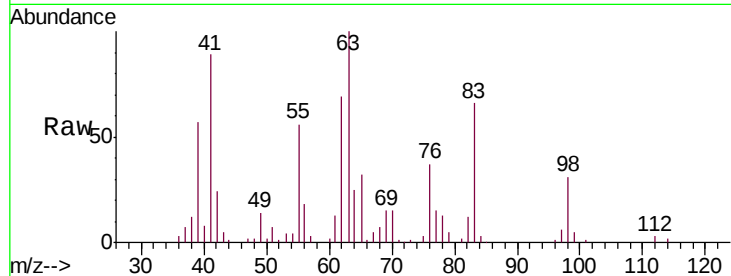




#37
 1,2-Dichloropropane
 Concen: 50.585 ug/L
 RT: 6.43 min Scan# 1636
 Delta R.T. -0.00 min
 Lab File: VU027843.D
 Acq: 26 Oct 2018 18:57

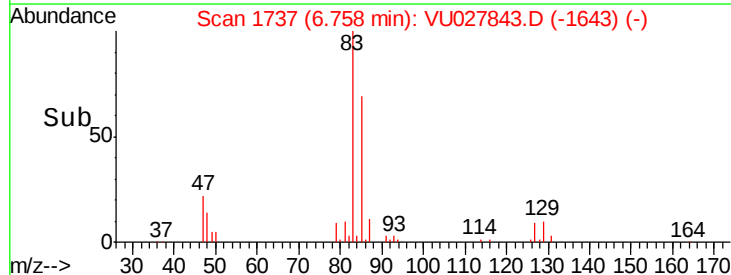
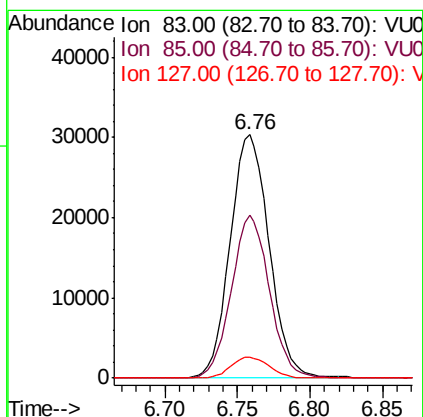
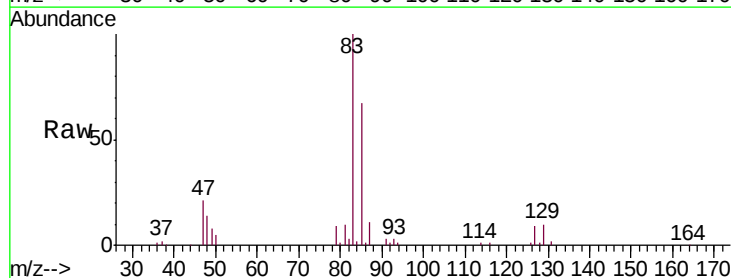
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

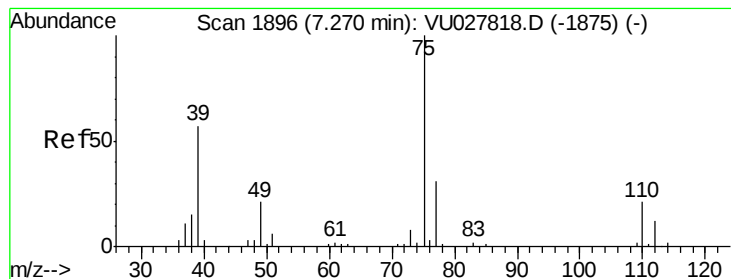
Tgt Ion: 63 Resp: 47480
 Ion Ratio Lower Upper
 63 100
 112 3.0 2.6 3.8



#38
 Bromodichloromethane
 Concen: 48.559 ug/L
 RT: 6.76 min Scan# 1737
 Delta R.T. 0.00 min
 Lab File: VU027843.D
 Acq: 26 Oct 2018 18:57

Tgt Ion: 83 Resp: 56639
 Ion Ratio Lower Upper
 83 100
 85 66.8 44.5 82.7
 127 8.6 6.2 9.2



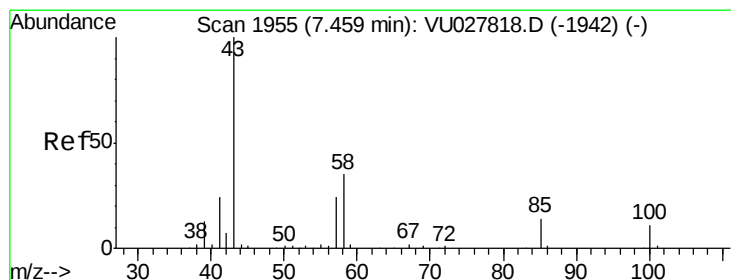
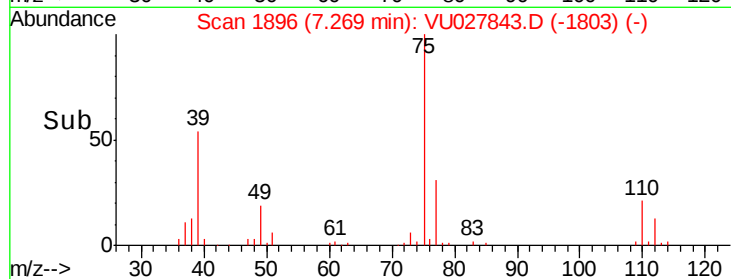
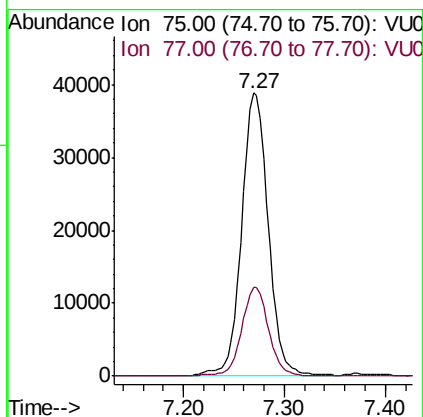
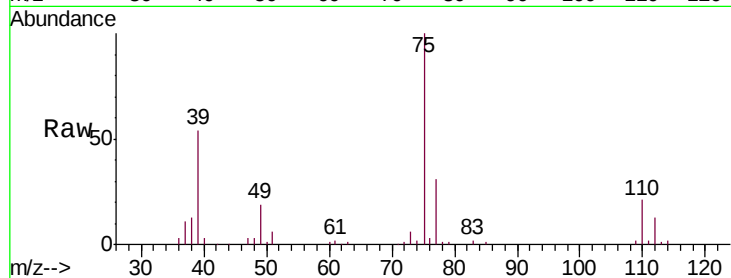


#39

cis-1,3-Dichloropropene
 Concen: 49.138 ug/L
 RT: 7.27 min Scan# 1896
 Delta R.T. -0.00 min
 Lab File: VU027843.D
 Acq: 26 Oct 2018 18:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

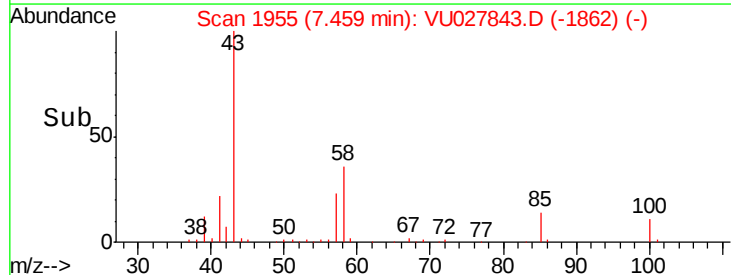
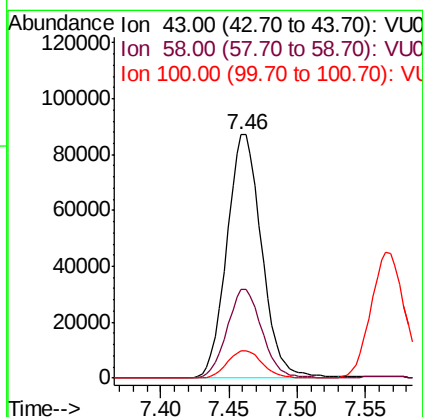
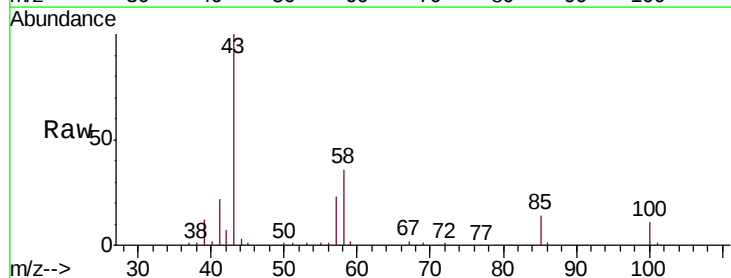
Tgt Ion: 75 Resp: 71016
 Ion Ratio Lower Upper
 75 100
 77 31.2 22.5 41.7

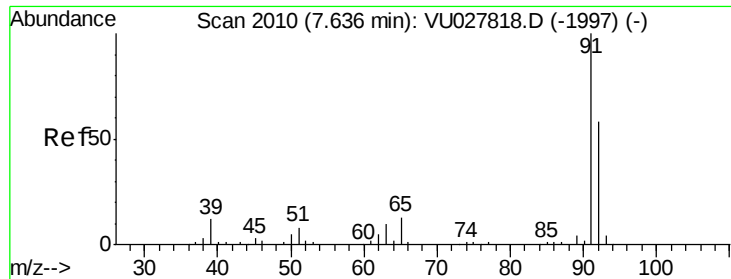


#40

4-Methyl-2-pentanone
 Concen: 102.809 ug/L
 RT: 7.46 min Scan# 1955
 Delta R.T. -0.00 min
 Lab File: VU027843.D
 Acq: 26 Oct 2018 18:57

Tgt Ion: 43 Resp: 155089
 Ion Ratio Lower Upper
 43 100
 58 36.5 28.3 42.5
 100 11.4 9.1 13.7





#42

Toluene

Concen: 50.694 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

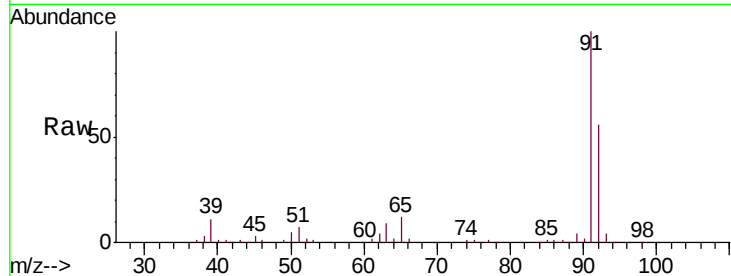
VSTD05034

Tgt Ion: 91 Resp: 168653

Ion Ratio Lower Upper

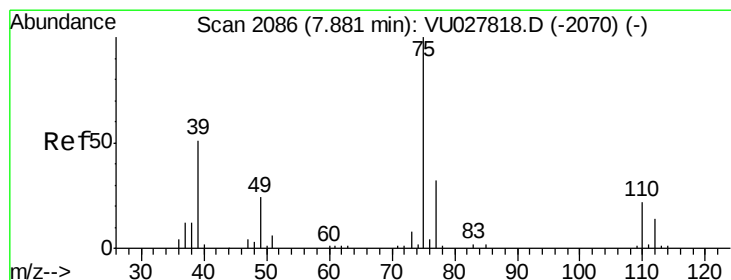
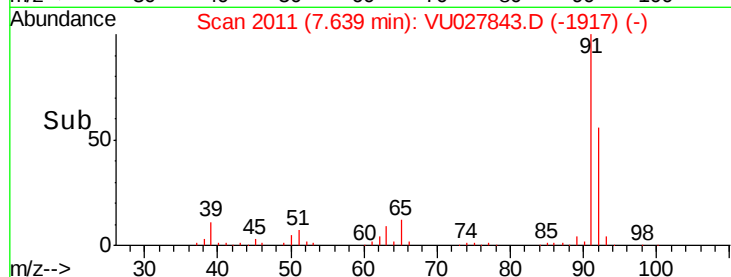
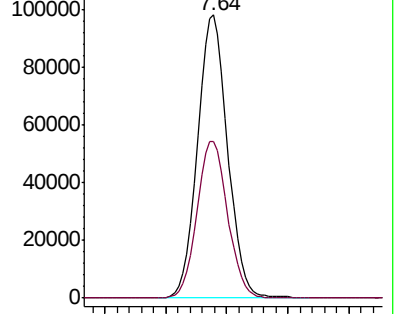
91 100

92 55.6 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 47.710 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. -0.00 min

Lab File: VU027843.D

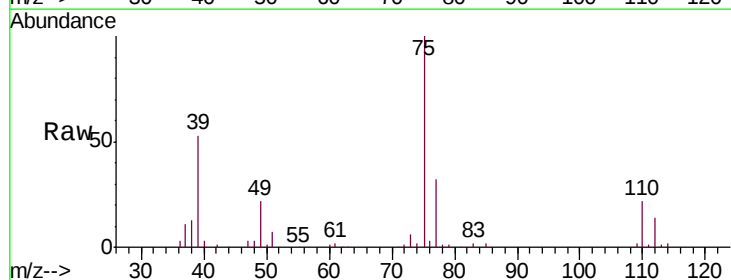
Acq: 26 Oct 2018 18:57

Tgt Ion: 75 Resp: 65225

Ion Ratio Lower Upper

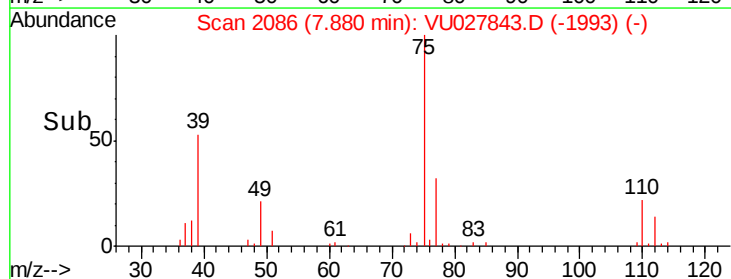
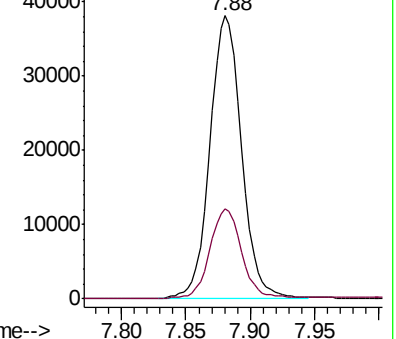
75 100

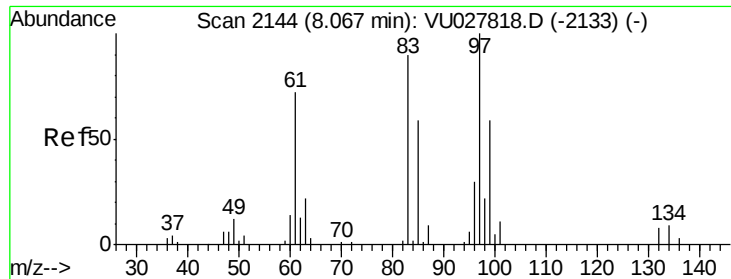
77 31.7 22.8 42.4



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

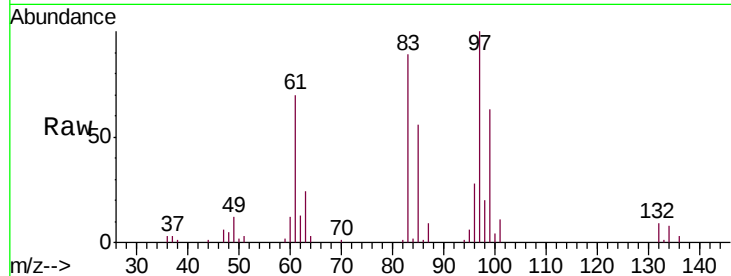




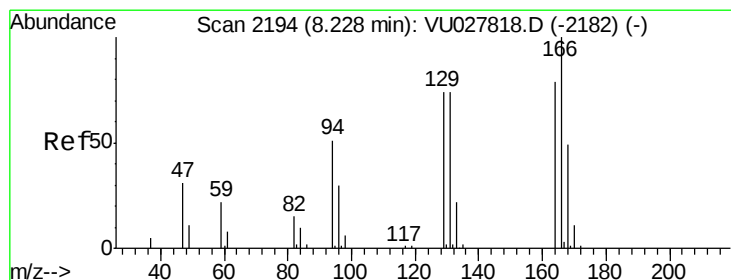
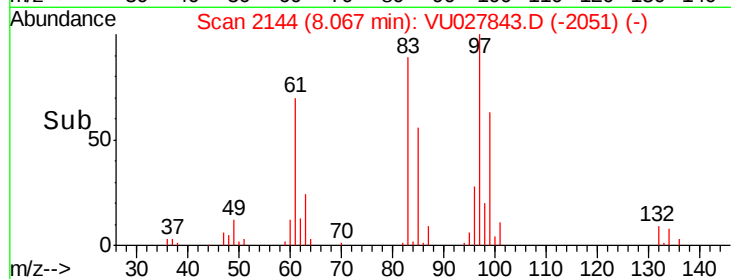
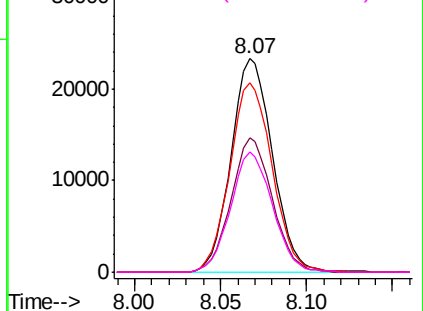
#45
 1,1,2-Trichloroethane
 Concen: 50.559 ug/L
 RT: 8.07 min Scan# 2144
 Delta R.T. -0.00 min
 Lab File: VU027843.D
 Acq: 26 Oct 2018 18:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

Tgt Ion:	97	Resp:	39198
Ion	Ratio	Lower	Upper
97	100		
99	62.8	42.6	79.2
83	88.5	62.4	115.8
85	56.1	41.6	77.2

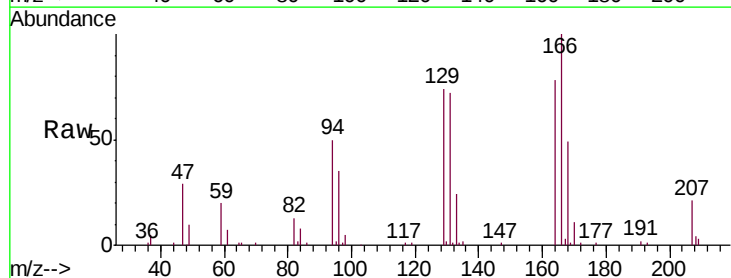


Abundance Ion 97.00 (96.70 to 97.70): VU027818.D (-2133) (-)
 Ion 99.00 (98.70 to 99.70): VU027818.D (-2133) (-)
 Ion 83.00 (82.70 to 83.70): VU027818.D (-2133) (-)
 Ion 85.00 (84.70 to 85.70): VU027818.D (-2133) (-)

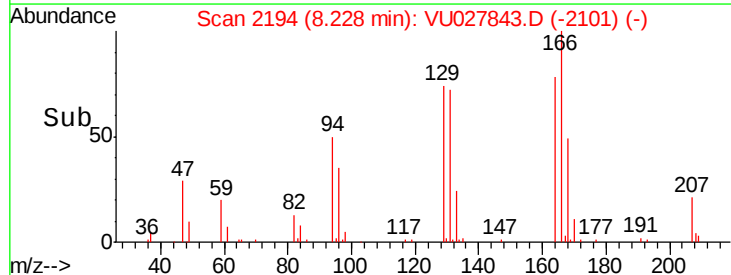
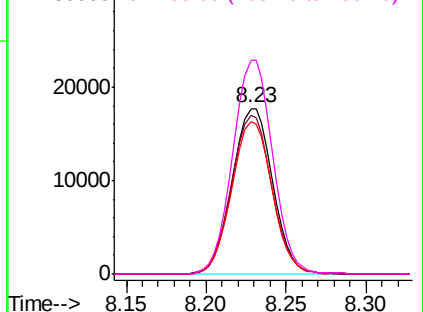


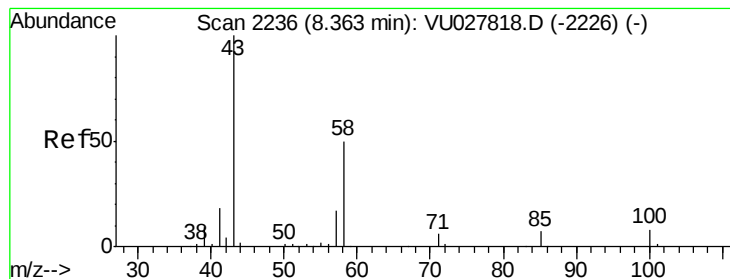
#46
 Tetrachloroethene
 Concen: 49.861 ug/L
 RT: 8.23 min Scan# 2194
 Delta R.T. -0.00 min
 Lab File: VU027843.D
 Acq: 26 Oct 2018 18:57

Tgt Ion:	164	Resp:	30623
Ion	Ratio	Lower	Upper
164	100		
129	95.5	68.5	127.3
131	92.2	67.1	124.5
166	128.8	92.2	171.2



Abundance Ion 164.00 (163.70 to 164.70): VU027818.D (-2182) (-)
 Ion 129.00 (128.70 to 129.70): VU027818.D (-2182) (-)
 Ion 131.00 (130.70 to 131.70): VU027818.D (-2182) (-)
 Ion 166.00 (165.70 to 166.70): VU027818.D (-2182) (-)





#48

2-Hexanone

Concen: 102.872 ug/L

RT: 8.36 min Scan# 2236

Delta R.T. -0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

Tgt Ion: 43 Resp: 120347

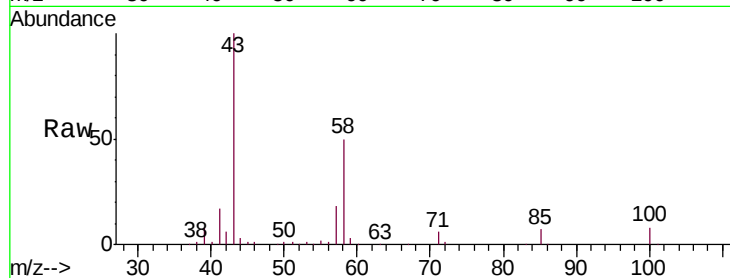
Ion Ratio Lower Upper

43 100

58 49.9 38.8 58.2

57 18.1 13.1 19.7

100 8.5 6.8 10.2

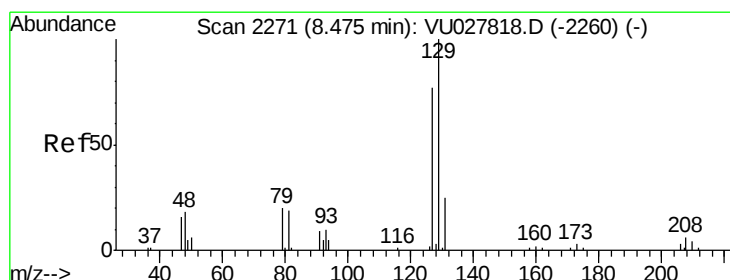
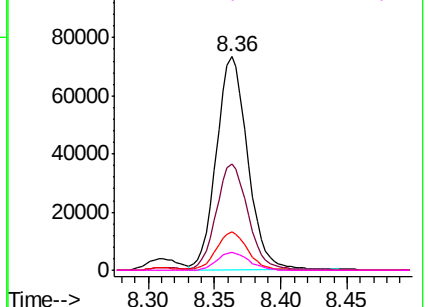
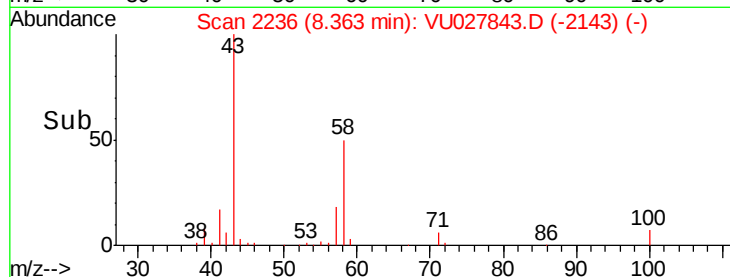


Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 47.593 ug/L

RT: 8.48 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VU027843.D

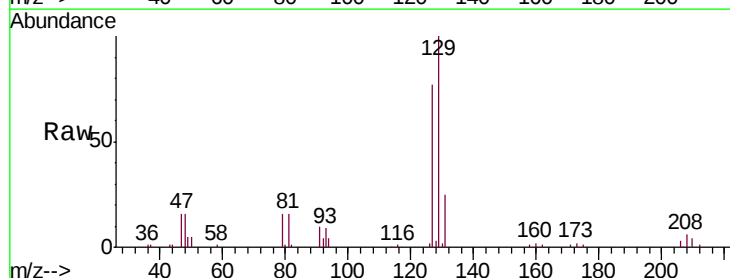
Acq: 26 Oct 2018 18:57

Tgt Ion: 129 Resp: 43723

Ion Ratio Lower Upper

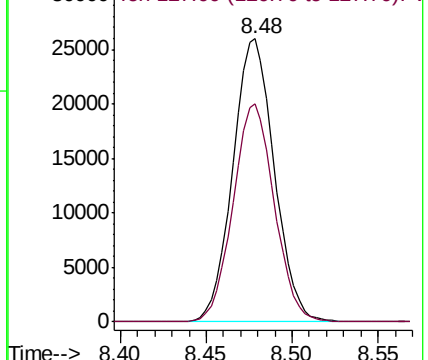
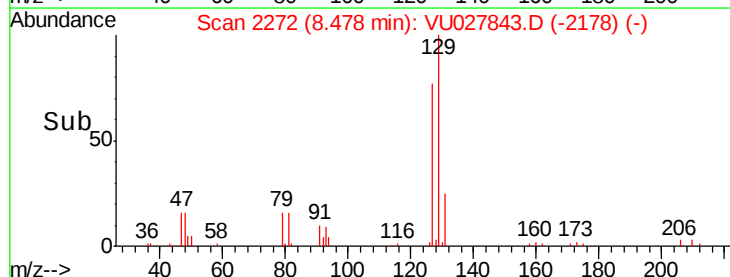
129 100

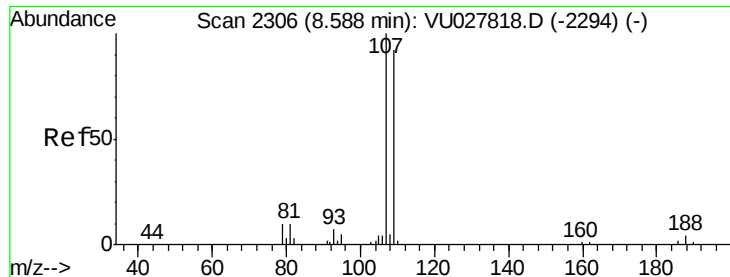
127 77.1 54.1 100.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

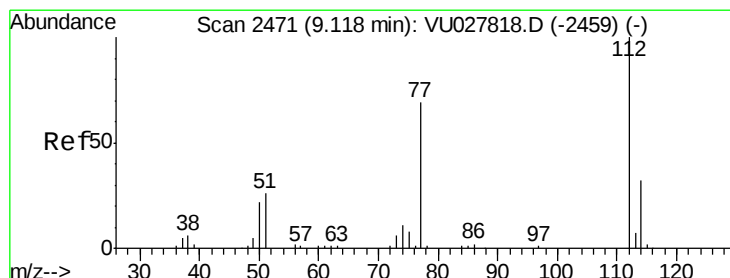
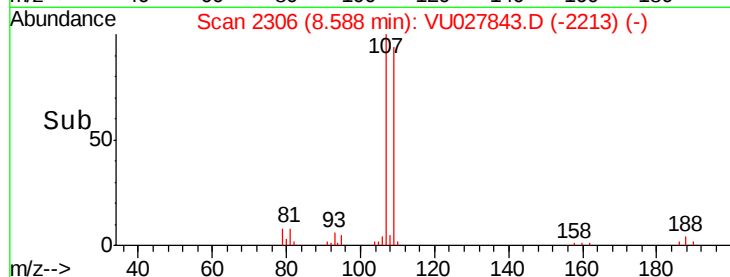
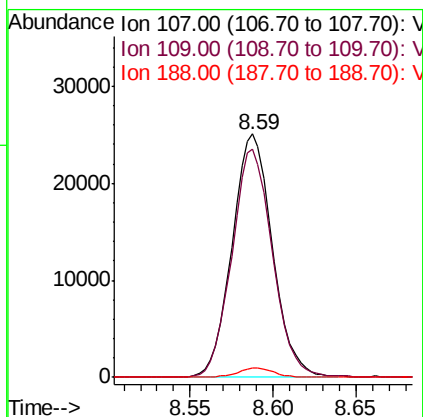
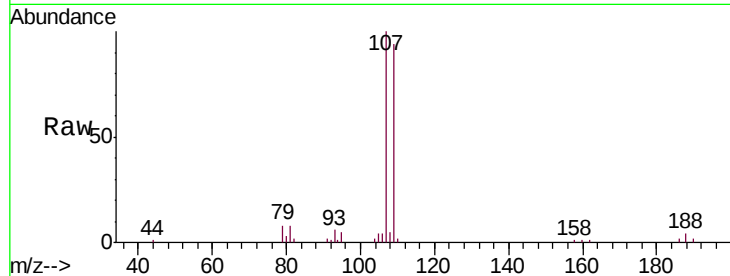




#50
1,2-Dibromoethane
Concen: 51.128 ug/L
RT: 8.59 min Scan# 2306
Delta R.T. -0.00 min
Lab File: VU027843.D
Acq: 26 Oct 2018 18:57

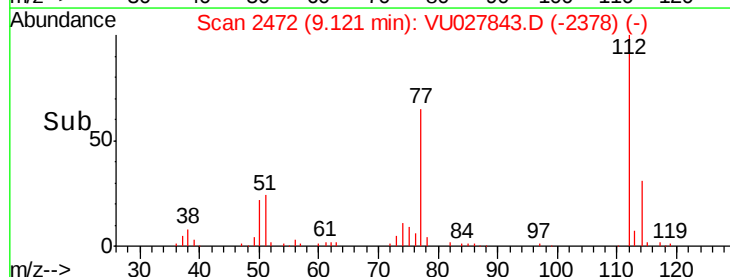
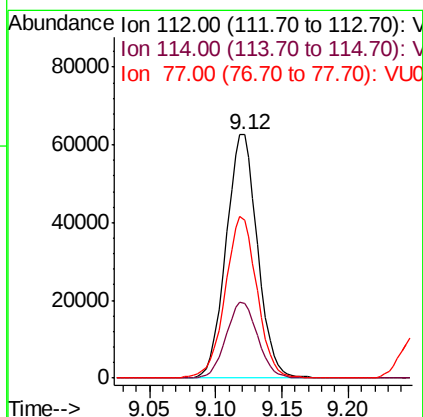
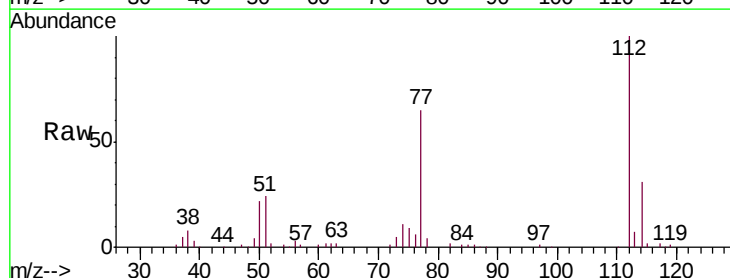
Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

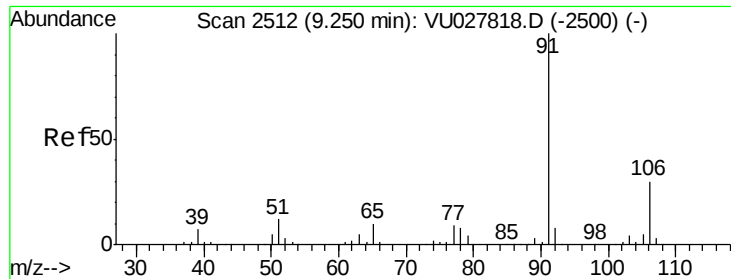
Tgt Ion:107 Resp: 42308
Ion Ratio Lower Upper
107 100
109 94.0 68.4 127.0
188 3.7 3.3 4.9



#51
Chlorobenzene
Concen: 50.468 ug/L
RT: 9.12 min Scan# 2472
Delta R.T. 0.00 min
Lab File: VU027843.D
Acq: 26 Oct 2018 18:57

Tgt Ion:112 Resp: 102937
Ion Ratio Lower Upper
112 100
114 30.9 21.9 40.7
77 64.8 52.2 78.2





#52

Ethylbenzene

Concen: 50.050 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. -0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

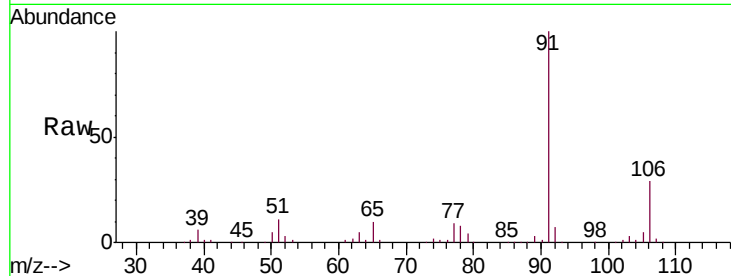
VSTD05034

Tgt Ion: 91 Resp: 188353

Ion Ratio Lower Upper

91 100

106 29.3 20.9 38.7



Abundance Ion 91.00 (90.70 to 91.70): VU027818.D (-2500) (-)

Ion 106.00 (105.70 to 106.70): VU027818.D (-2500) (-)

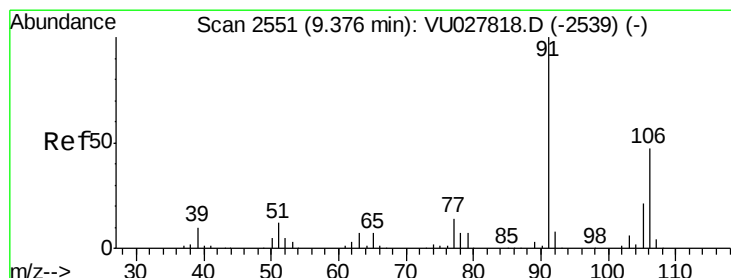
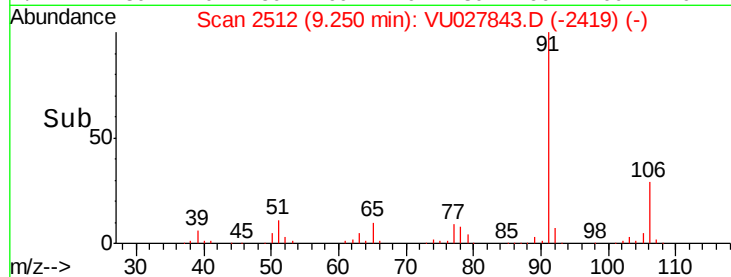
9.25

100000

50000

0

Time-->



#53

m,p-Xylene

Concen: 48.945 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VU027843.D

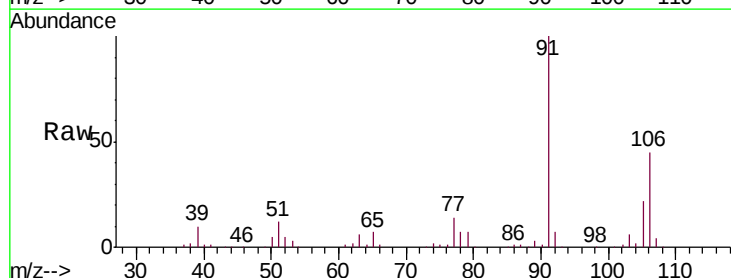
Acq: 26 Oct 2018 18:57

Tgt Ion: 106 Resp: 66540

Ion Ratio Lower Upper

106 100

91 223.4 147.9 274.7



Abundance Ion 106.00 (105.70 to 106.70): VU027818.D (-2539) (-)

Ion 91.00 (90.70 to 91.70): VU027818.D (-2539) (-)

9.38

100000

80000

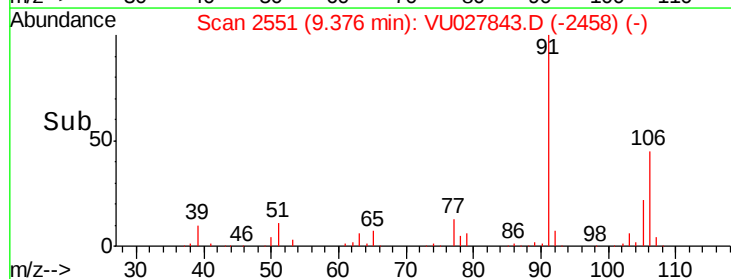
60000

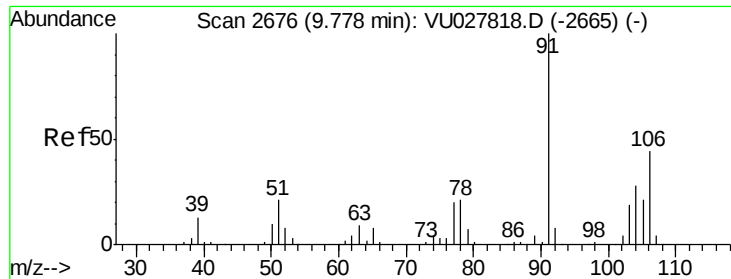
40000

20000

0

Time-->

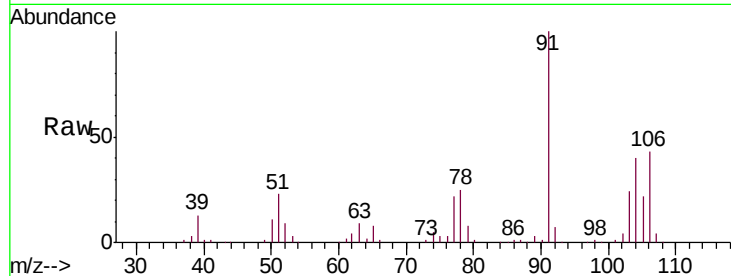




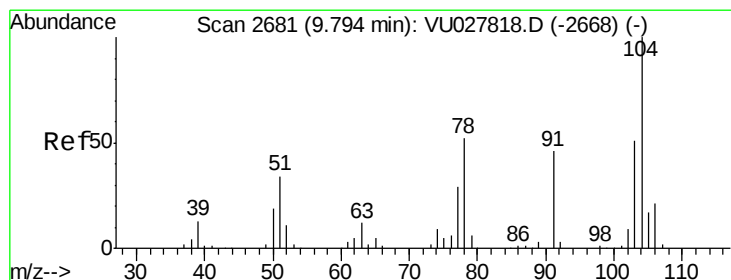
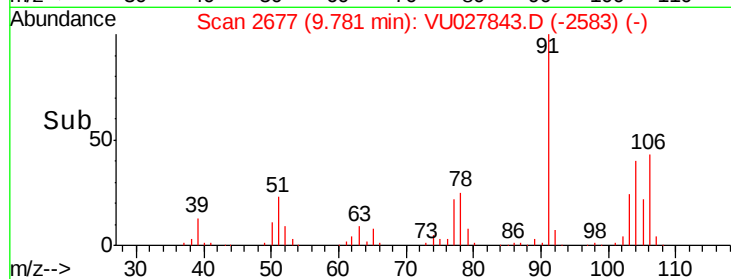
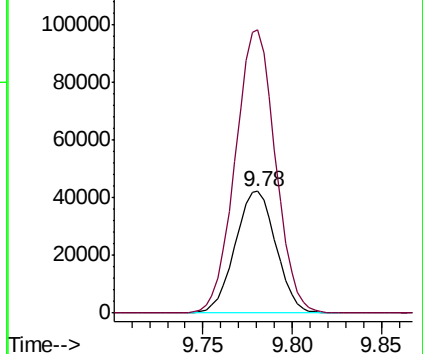
#54
o-xylene
Concen: 50.006 ug/L
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU027843.D
Acq: 26 Oct 2018 18:57

Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

Tgt Ion:106 Resp: 67765
Ion Ratio Lower Upper
106 100
91 232.0 159.4 296.0

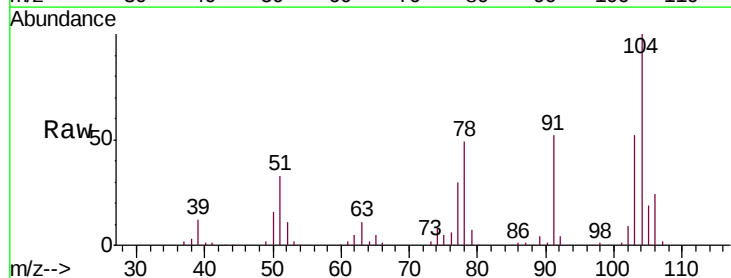


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

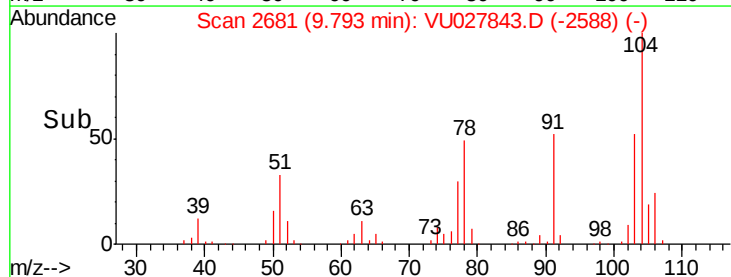
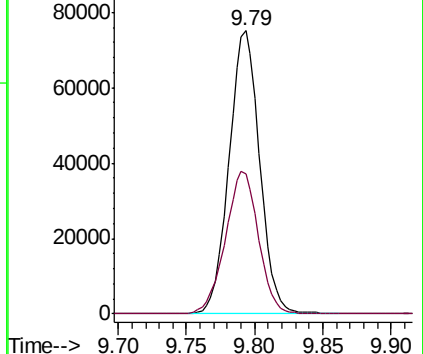


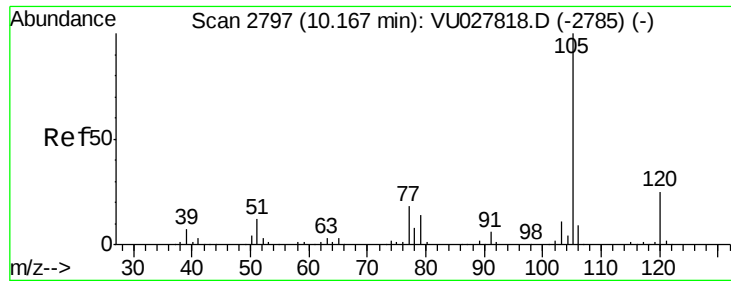
#55
Styrene
Concen: 50.763 ug/L
RT: 9.79 min Scan# 2681
Delta R.T. -0.00 min
Lab File: VU027843.D
Acq: 26 Oct 2018 18:57

Tgt Ion:104 Resp: 117092
Ion Ratio Lower Upper
104 100
78 49.3 36.5 67.9



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 50.073 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

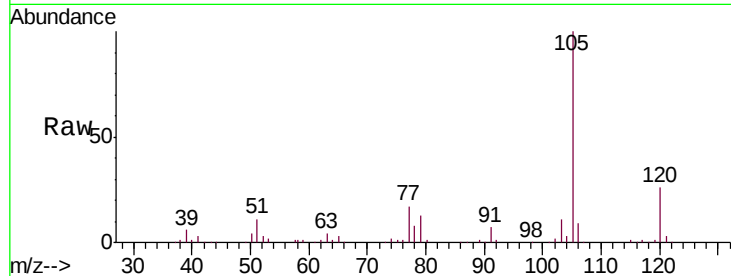
Tgt Ion: 105 Resp: 179704

Ion Ratio Lower Upper

105 100

120 25.1 21.0 31.6

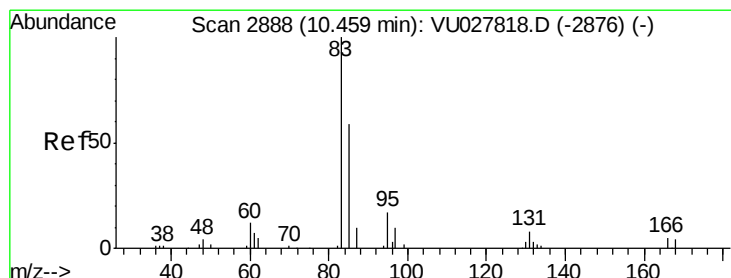
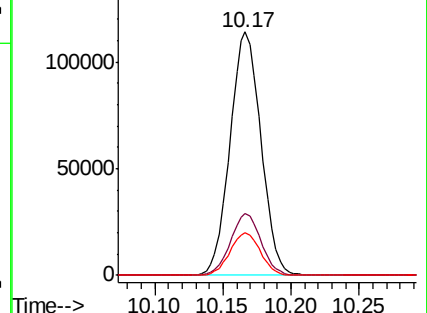
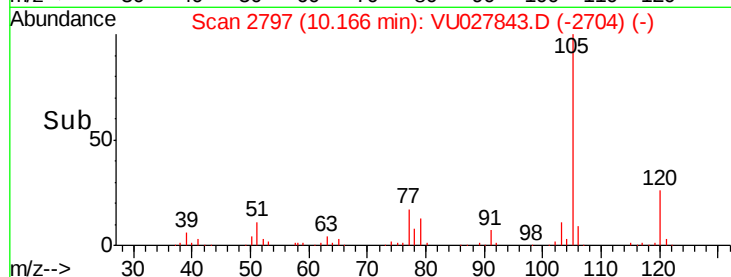
77 17.1 13.7 20.5



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: 50.804 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

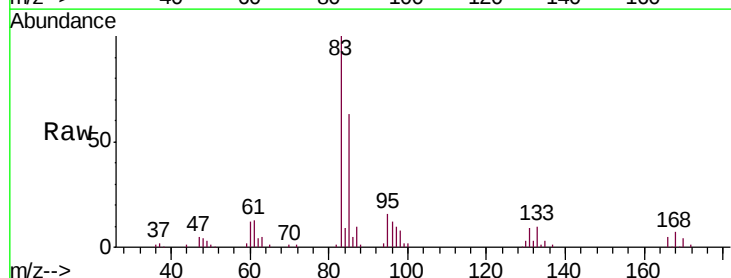
Tgt Ion: 83 Resp: 70042

Ion Ratio Lower Upper

83 100

85 62.8 44.6 82.8

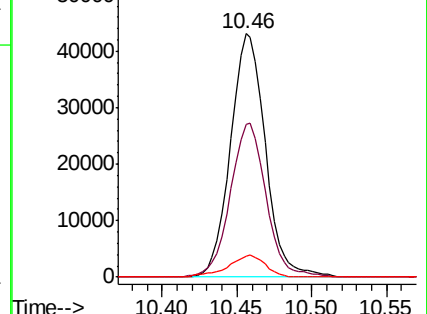
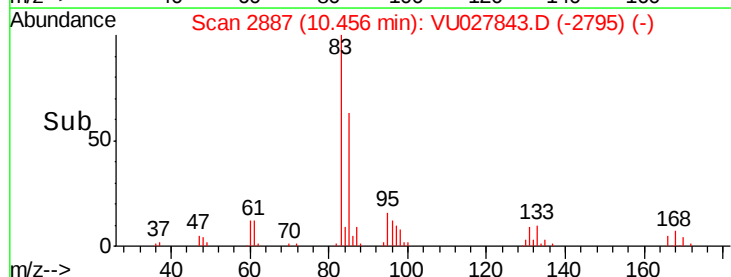
131 8.6 6.9 10.3

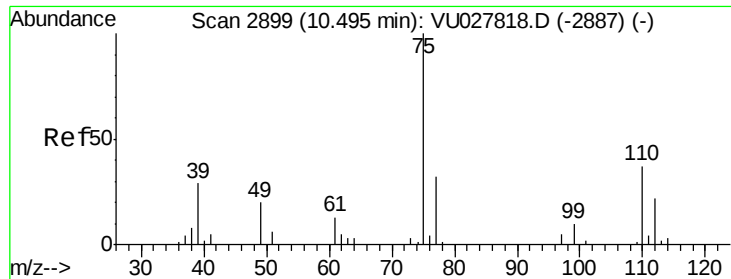


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.145 ug/L

RT: 10.49 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

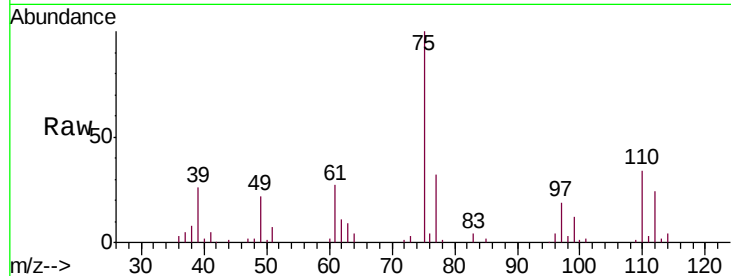
VSTD05034

Tgt Ion: 75 Resp: 55625

Ion Ratio Lower Upper

75 100

77 32.5 26.5 39.7



Abundance Ion 75.00 (74.70 to 75.70): VU027818.D (-2887) (-)

Ion 77.00 (76.70 to 77.70): VU027818.D (-2887) (-)

10.49

40000

30000

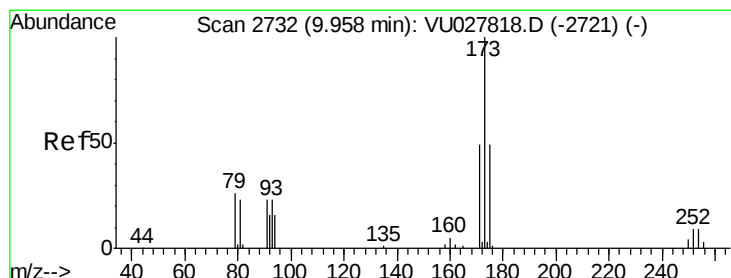
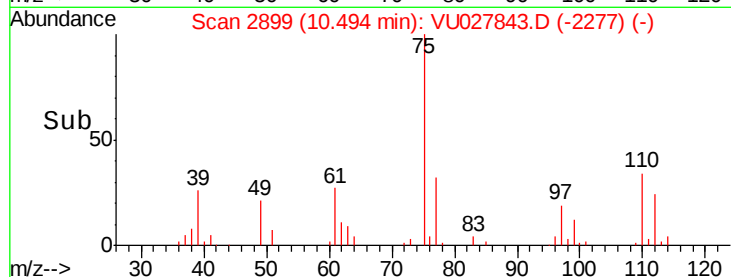
20000

10000

0

10.45 10.50 10.55

Time-->



#61

Bromoform

Concen: 46.936 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

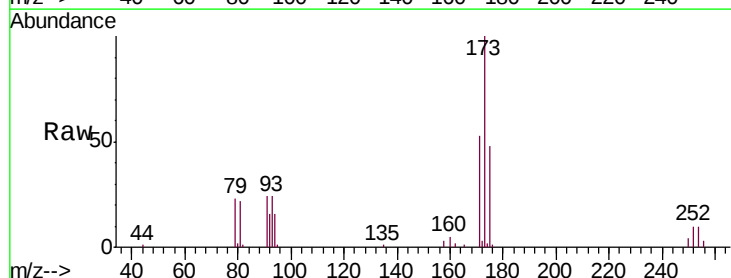
Tgt Ion: 173 Resp: 32432

Ion Ratio Lower Upper

173 100

175 48.5 38.6 58.0

254 9.3 7.9 11.9



Abundance Ion 173.00 (172.70 to 173.70): VU027818.D (-2721) (-)

Ion 175.00 (174.70 to 175.70): VU027818.D (-2721) (-)

Ion 254.00 (253.70 to 254.70): VU027818.D (-2721) (-)

9.96

25000

20000

15000

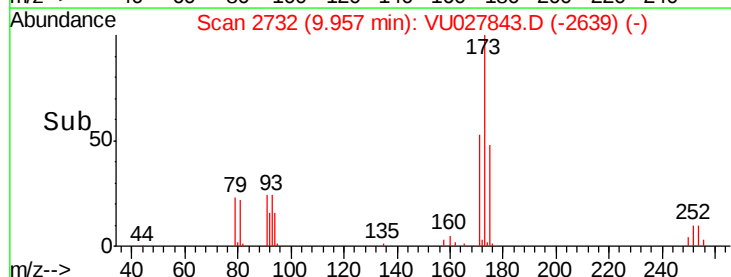
10000

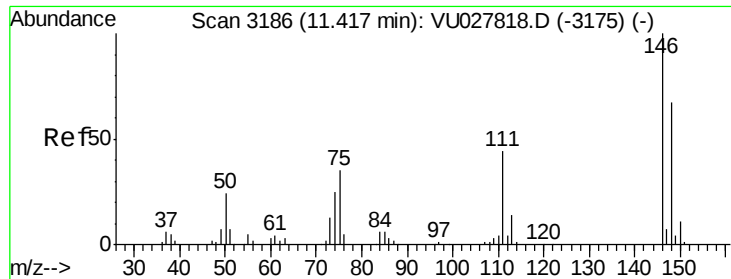
5000

0

9.90 9.95 10.00

Time-->





#62

1,3-Dichlorobenzene

Concen: 50.693 ug/L

RT: 11.42 min Scan# 3186

Delta R.T. -0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

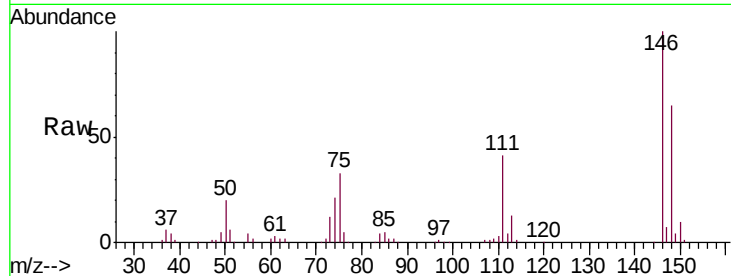
Tgt Ion:146 Resp: 78792

Ion Ratio Lower Upper

146 100

111 41.4 28.1 52.3

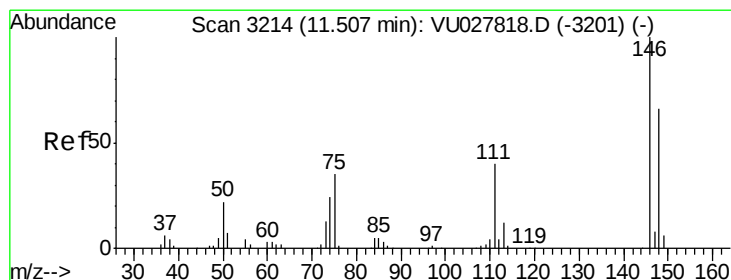
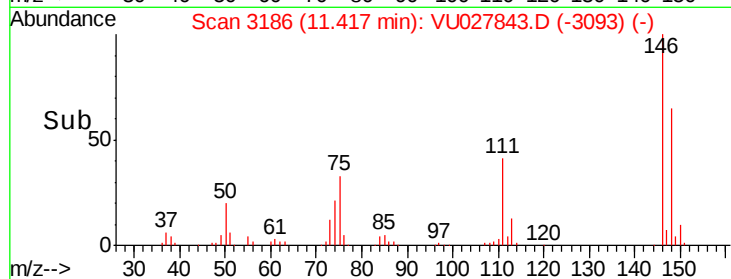
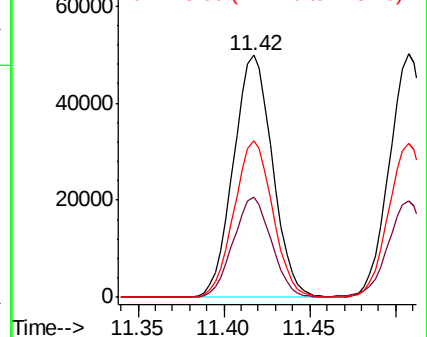
148 64.8 43.7 81.1



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: 49.350 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. -0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

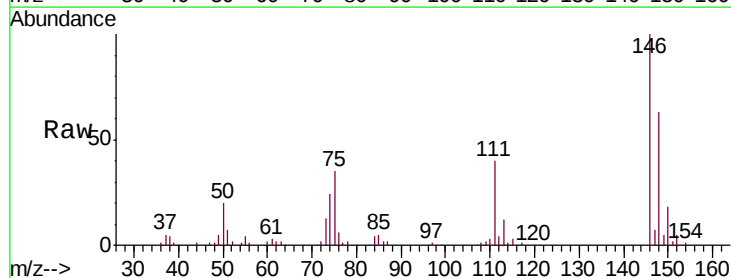
Tgt Ion:146 Resp: 78213

Ion Ratio Lower Upper

146 100

111 39.6 27.5 51.1

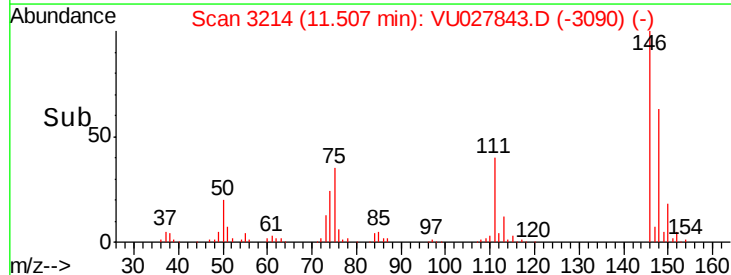
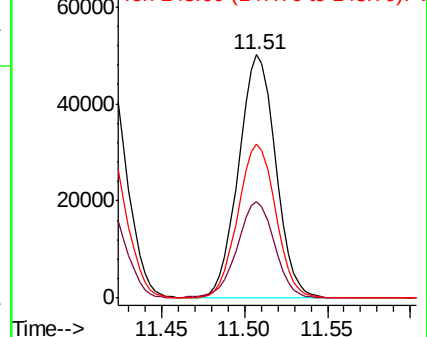
148 63.3 44.1 81.9

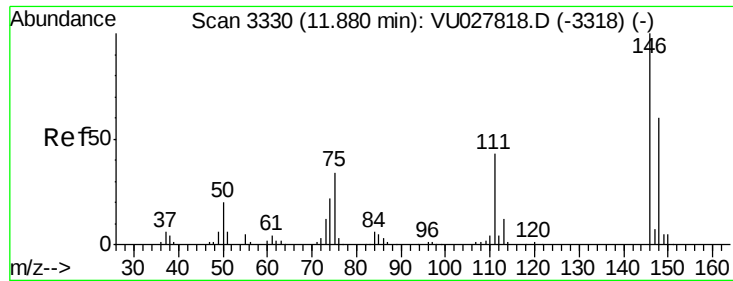


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 50.206 ug/L

RT: 11.88 min Scan# 3330

Delta R.T. -0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

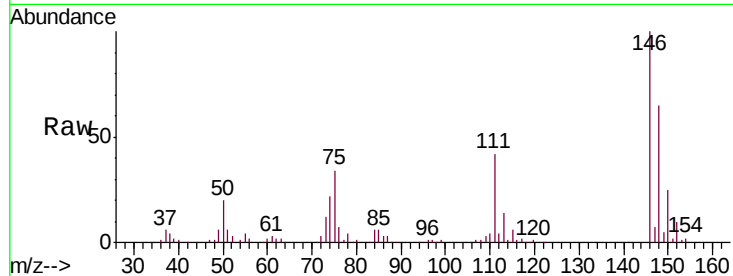
Tgt Ion:146 Resp: 80262

Ion Ratio Lower Upper

146 100

111 42.3 33.8 50.8

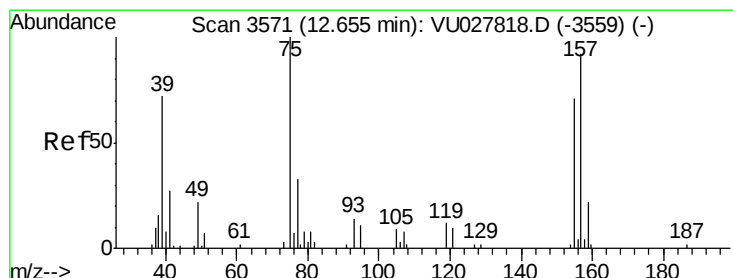
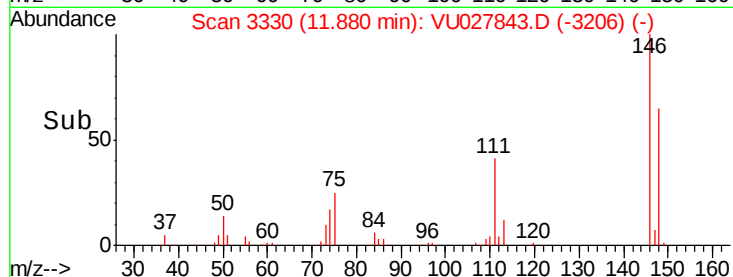
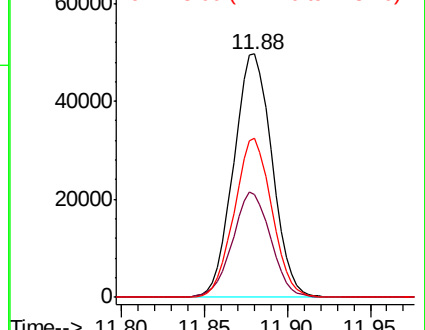
148 65.4 51.5 77.3



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



#66

1,2-Dibromo-3-chloropropane

Concen: 46.906 ug/L

RT: 12.66 min Scan# 3571

Delta R.T. -0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

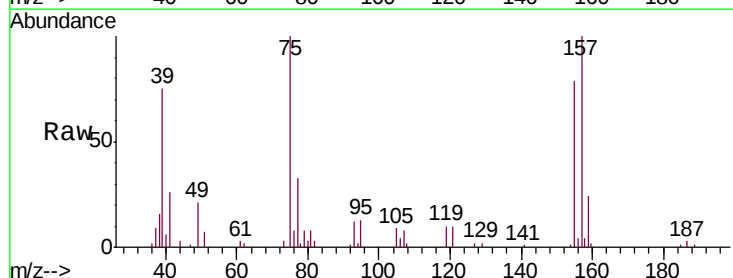
Tgt Ion: 75 Resp: 15625

Ion Ratio Lower Upper

75 100

155 78.9 57.4 86.2

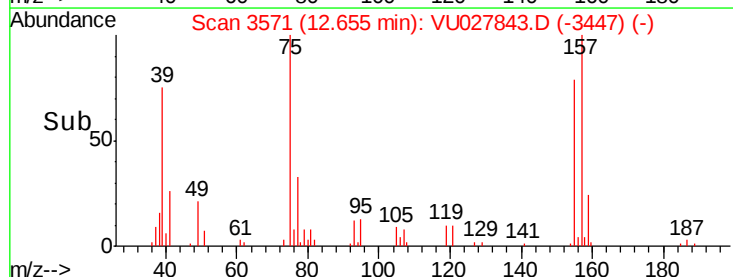
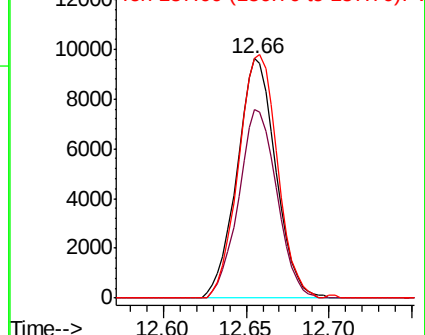
157 100.1 75.9 113.9

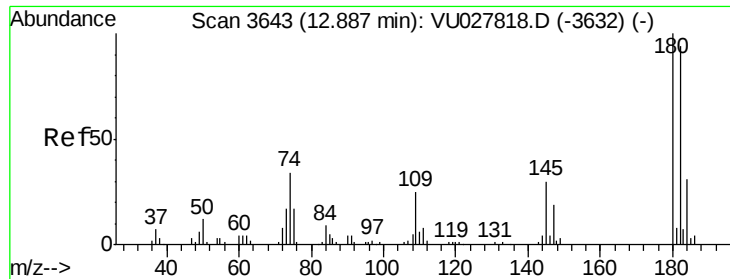


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

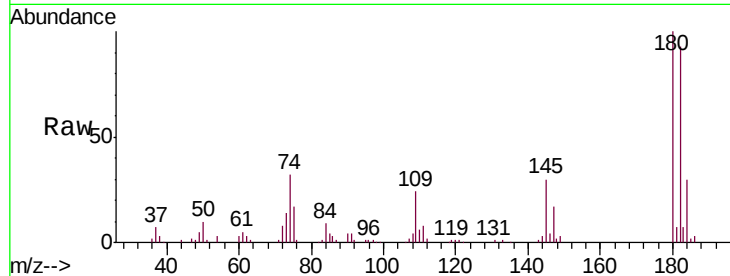




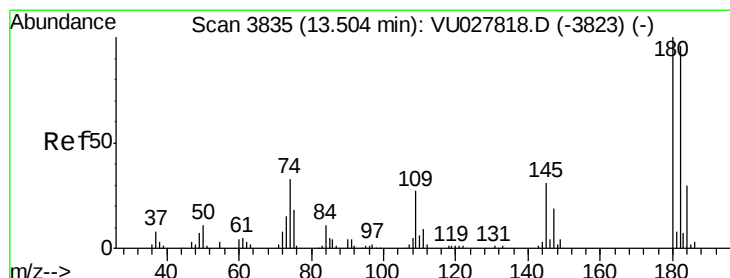
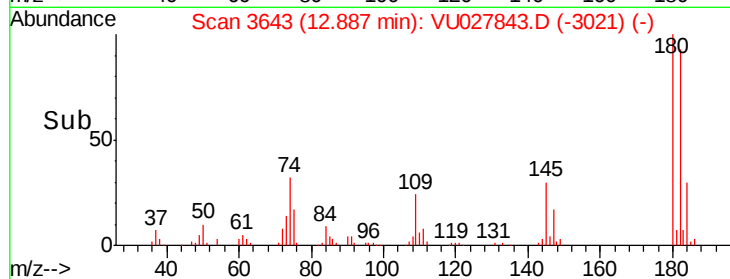
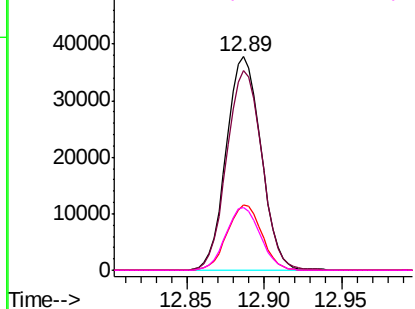
#67
 1,3,5-Trichlorobenzene
 Concen: 49.036 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. -0.00 min
 Lab File: VU027843.D
 Acq: 26 Oct 2018 18:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

Tgt Ion:180 Resp: 58947
 Ion Ratio Lower Upper
 180 100
 182 94.2 75.9 113.9
 184 30.0 24.7 37.1
 145 29.0 23.0 34.4

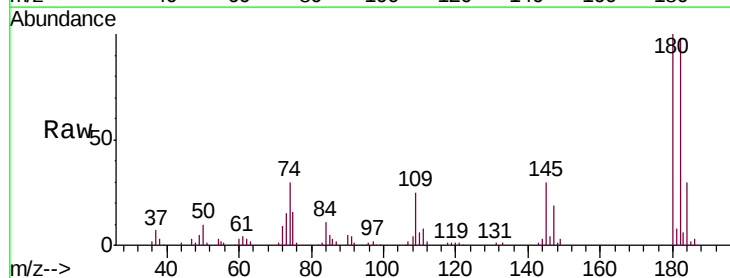


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

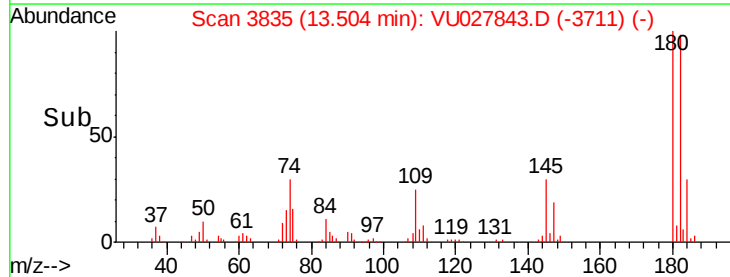
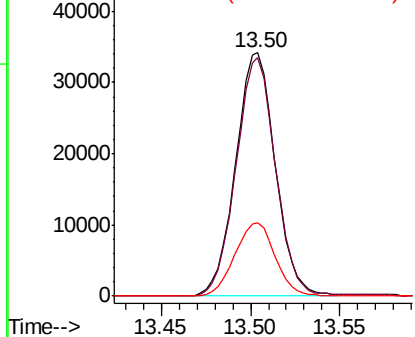


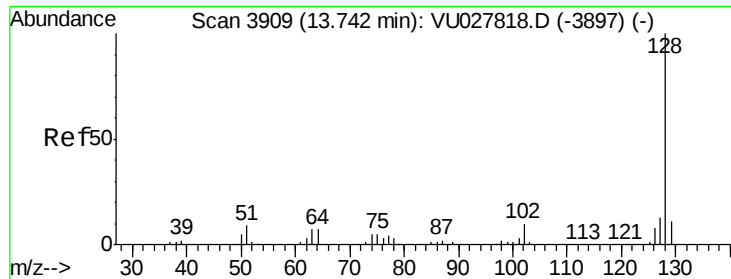
#68
 1,2,4-trichlorobenzene
 Concen: 49.753 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. -0.00 min
 Lab File: VU027843.D
 Acq: 26 Oct 2018 18:57

Tgt Ion:180 Resp: 53096
 Ion Ratio Lower Upper
 180 100
 182 97.4 77.1 115.7
 145 30.5 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: 50.705 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. -0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

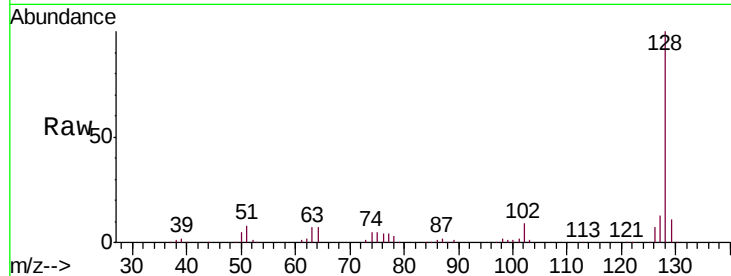
Tgt Ion:128 Resp: 174771

Ion Ratio Lower Upper

128 100

127 13.2 10.9 16.3

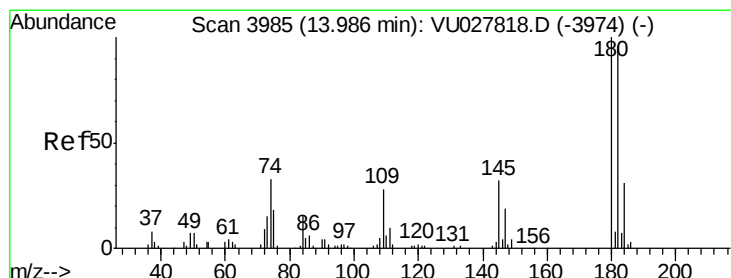
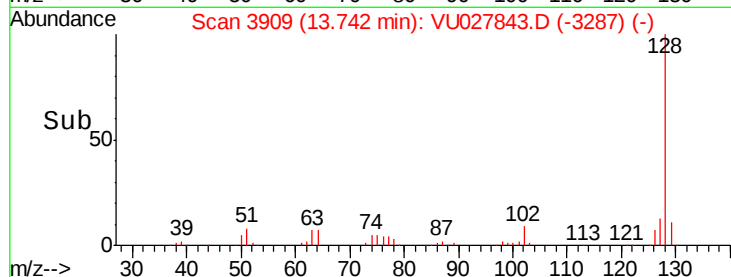
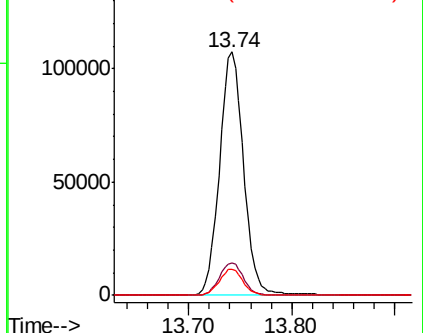
129 10.7 8.7 13.1



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: 48.800 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. -0.00 min

Lab File: VU027843.D

Acq: 26 Oct 2018 18:57

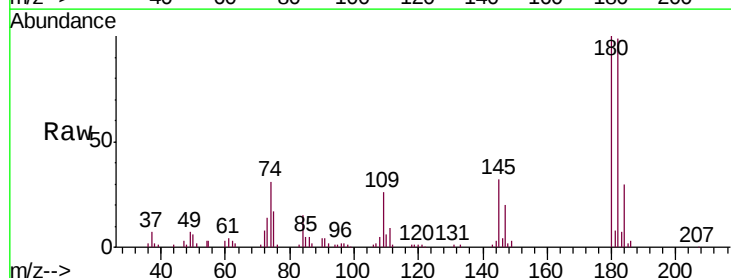
Tgt Ion:180 Resp: 54430

Ion Ratio Lower Upper

180 100

182 97.8 77.8 116.6

145 31.2 25.0 37.4



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

