

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\U120718\
 Data File : VU028525.D
 Acq On : 07 Dec 2018 11:22
 Operator : MD/SY
 Sample : VSTD20058
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20058

Quant Time: Dec 07 22:42:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM120718WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 07 22:38:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	152759	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	150900	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	78006	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	301311	219.51	ug/L	0.00
7) Chloroethane-d5	1.67	69	219550	208.83	ug/L	-0.01
11) 1,1-Dichloroethene-d2	2.27	63	517966	212.81	ug/L	0.00
21) 2-Butanone-d5	4.17	46	498590	446.51	ug/L	0.00
24) Chloroform-d	4.65	84	473678	215.14	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	306489	205.04	ug/L	0.00
32) Benzene-d6	5.34	84	970788	207.43	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	350529	207.66	ug/L	0.00
41) Toluene-d8	7.57	98	893915	210.74	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	168889	220.94	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	366481	451.06	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	478204	221.45	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	332130	213.09	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	245336	184.463	ug/L 98
3) Chloromethane	1.33	50	395066	203.690	ug/L 98
5) Vinyl chloride	1.40	62	333404	200.964	ug/L 99
6) Bromomethane	1.60	94	99299	209.992	ug/L 96
8) Chloroethane	1.68	64	187099	200.378	ug/L 99
9) Trichlorofluoromethane	1.88	101	345209	202.702	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	206568	207.419	ug/L 99
12) 1,1-Dichloroethene	2.28	96	204166	213.695	ug/L 81
13) Acetone	2.32	43	419959	361.376	ug/L 100
14) Carbon disulfide	2.48	76	721687	200.230	ug/L 100
15) Methyl Acetate	2.61	43	354577	207.791	ug/L 99
16) Methylene chloride	2.70	84	259303	209.789	ug/L 98
17) trans-1,2-Dichloroethene	2.98	96	229819	211.731	ug/L 100
18) Methyl tert-butyl Ether	3.00	73	781102	207.489	ug/L 99
19) 1,1-Dichloroethane	3.44	63	487938	207.862	ug/L 99
20) cis-1,2-Dichloroethene	4.22	96	261846	209.147	ug/L 99
22) 2-Butanone	4.26	43	580788	404.660	ug/L 99
23) Bromochloromethane	4.55	128	111948	203.983	ug/L 98
25) Chloroform	4.67	83	447358	208.529	ug/L 100
27) 1,2-Dichloroethane	5.40	62	369405	207.925	ug/L 100
29) Cyclohexane	4.99	56	478877	197.959	ug/L 100
30) 1,1,1-Trichloroethane	4.91	97	363327	205.153	ug/L 100
31) Carbon tetrachloride	5.13	117	297447	208.815	ug/L 97
33) Benzene	5.39	78	1042602	202.810	ug/L 100
34) Trichloroethene	6.18	95	252835	204.560	ug/L 98
35) Methylcyclohexane	6.41	83	428610	200.494	ug/L 99
37) 1,2-Dichloropropane	6.43	63	309511	203.119	ug/L 100
38) Bromodichloromethane	6.76	83	346953	205.648	ug/L 96
39) cis-1,3-Dichloropropene	7.27	75	460506	212.664	ug/L 99
40) 4-Methyl-2-pentanone	7.46	43	995019	416.219	ug/L 100

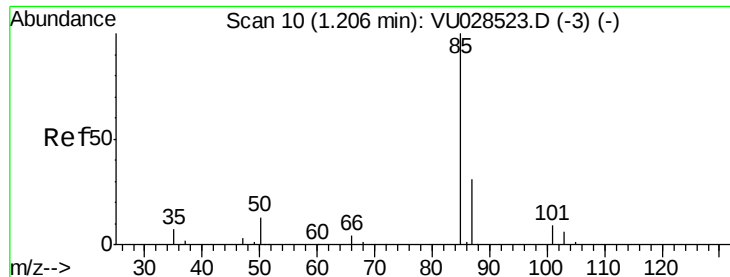
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU120718\
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 Quant Title : VOC Analysis
 QLast Update : Fri Dec 07 22:38:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	1083372	207.507	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	423486	213.429	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	247932	208.496	ug/L	99
46) Tetrachloroethene	8.22	164	178043	205.574	ug/L	98
48) 2-Hexanone	8.36	43	822058	409.944	ug/L	99
49) Dibromochloromethane	8.48	129	258686	213.755	ug/L	99
50) 1,2-Dibromoethane	8.58	107	264836	208.474	ug/L	98
51) Chlorobenzene	9.12	112	654943	210.055	ug/L	98
52) Ethylbenzene	9.25	91	1212524	210.188	ug/L	99
53) m,p-Xylene	9.37	106	439418	213.002	ug/L	100
54) o-xylene	9.78	106	434370	212.975	ug/L	94
55) Styrene	9.79	104	765960	219.087	ug/L	99
56) Isopropylbenzene	10.17	105	1146300	212.813	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	474240	215.256	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	366199	211.332	ug/L	99
61) Bromoform	9.96	173	197862	208.145	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	518667	205.597	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	525163	206.515	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	522776	208.356	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	105126	211.436	ug/L	96
67) 1,3,5-Trichlorobenzene	12.89	180	402745	216.185	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	371064	213.976	ug/L	98
69) Naphthalene	13.74	128	1282056	214.543	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	367984	211.209	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 184.463 ug/L

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

Instrument :

MSVOA_U

ClientSampleId :

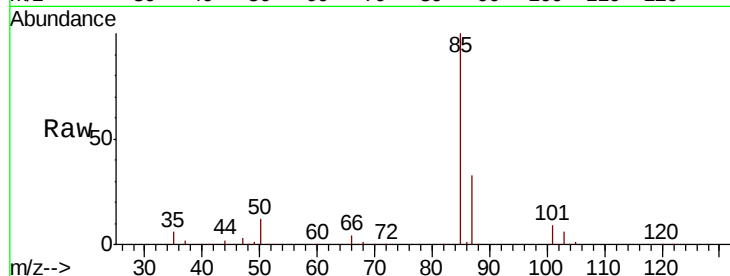
VSTD20058

Tgt Ion: 85 Resp: 245336

Ion Ratio Lower Upper

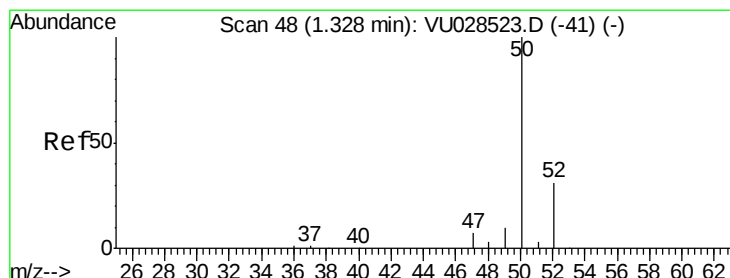
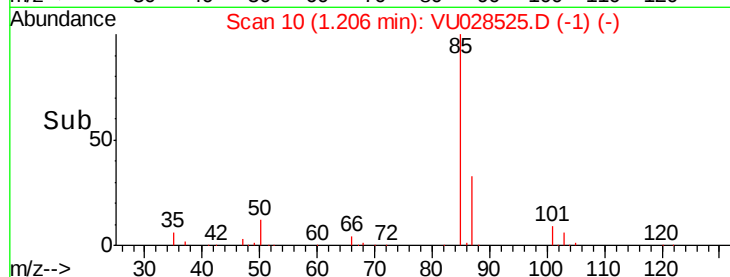
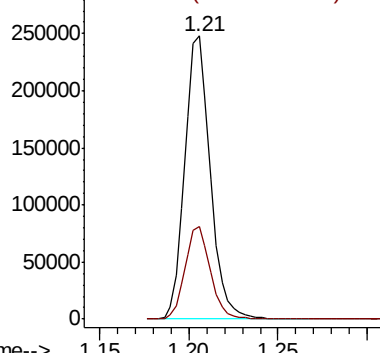
85 100

87 32.3 25.0 37.4



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 203.690 ug/L

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028525.D

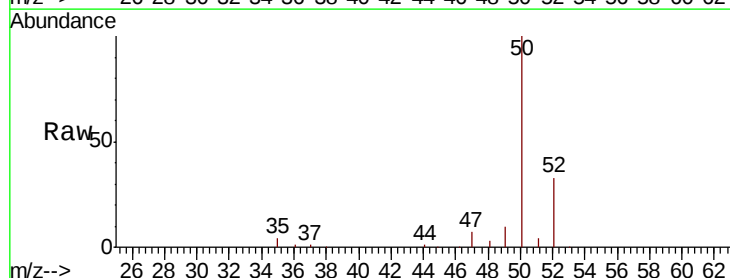
Acq: 07 Dec 2018 11:22

Tgt Ion: 50 Resp: 395066

Ion Ratio Lower Upper

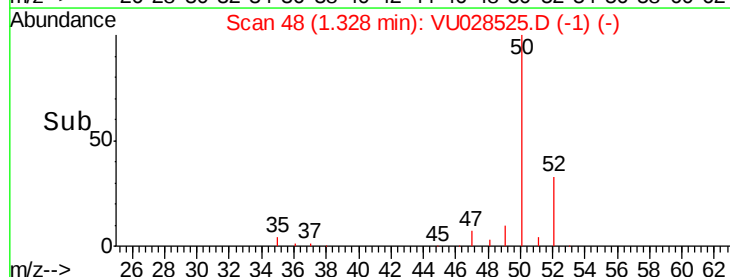
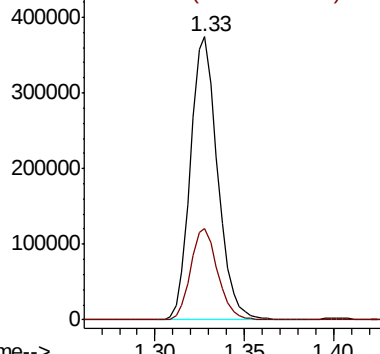
50 100

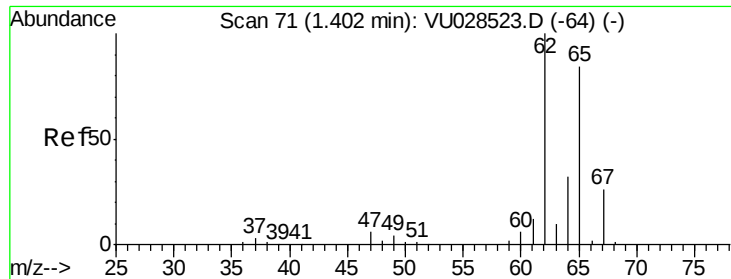
52 32.5 22.0 41.0



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 200.964 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

Instrument :

MSVOA_U

ClientSampleId :

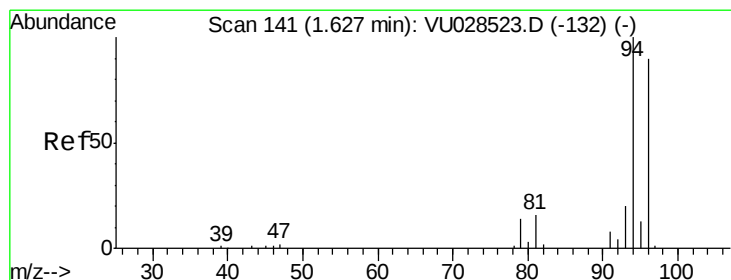
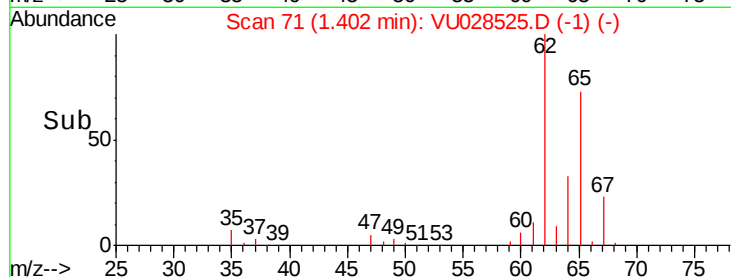
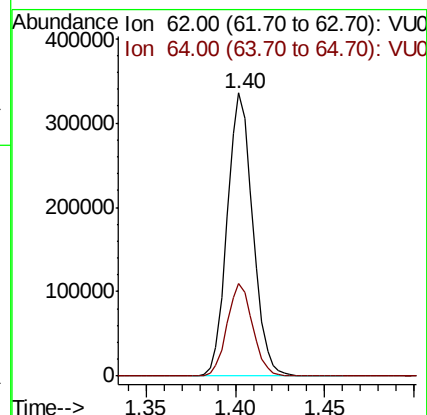
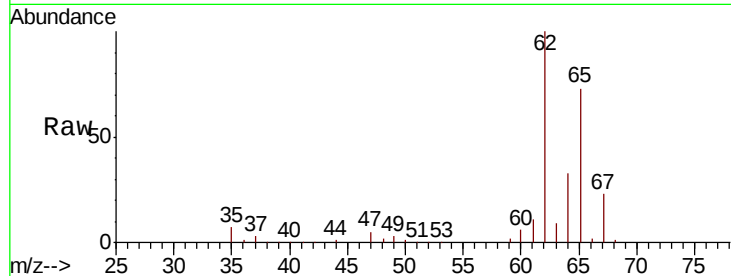
VSTD20058

Tgt Ion: 62 Resp: 333404

Ion Ratio Lower Upper

62 100

64 32.6 22.3 41.5



#6

Bromomethane

Concen: 209.992 ug/L

RT: 1.60 min Scan# 134

Delta R.T. -0.02 min

Lab File: VU028525.D

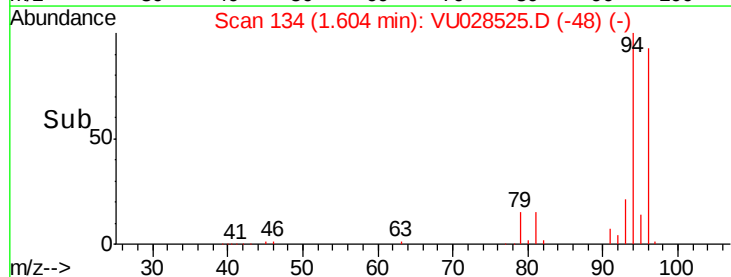
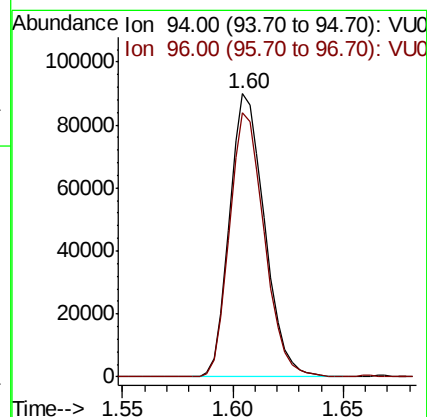
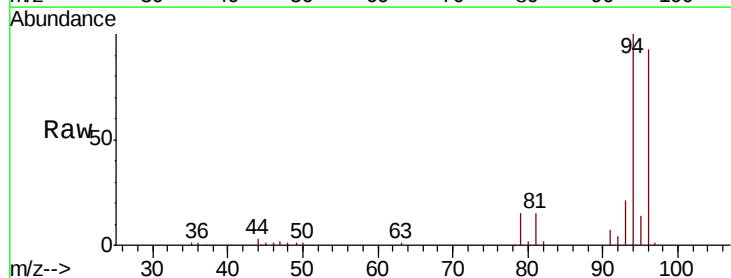
Acq: 07 Dec 2018 11:22

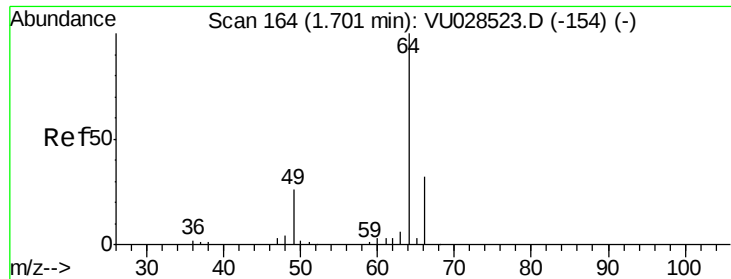
Tgt Ion: 94 Resp: 99299

Ion Ratio Lower Upper

94 100

96 93.4 62.9 116.9

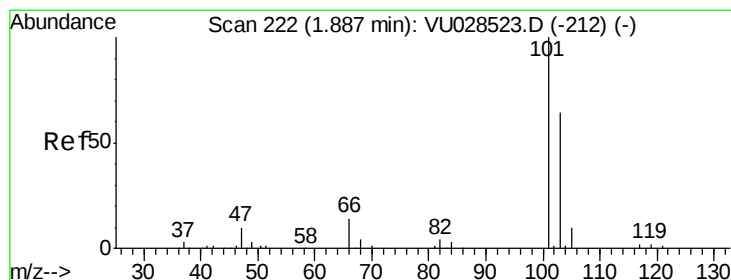
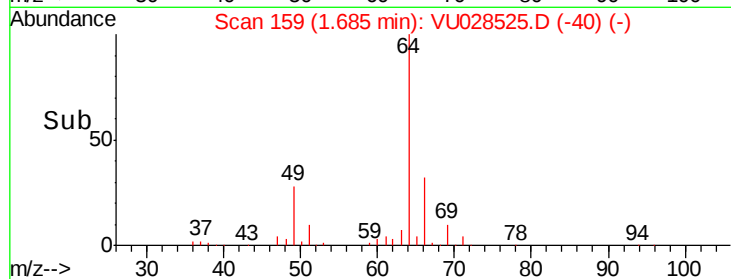
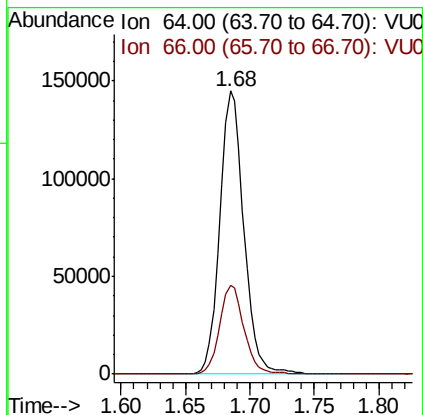
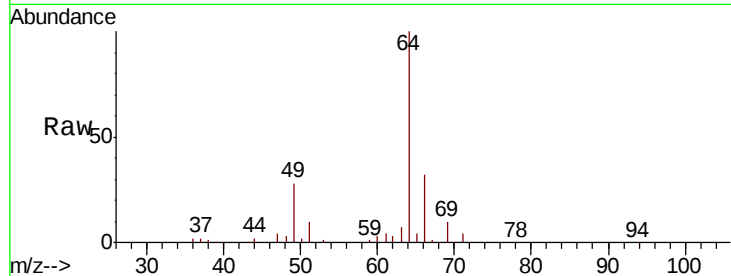




#8
Chloroethane
Concen: 200.378 ug/L
RT: 1.68 min Scan# 159
Delta R.T. -0.02 min
Lab File: VU028525.D
Acq: 07 Dec 2018 11:22

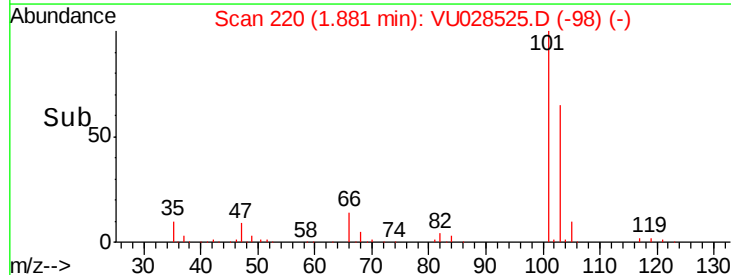
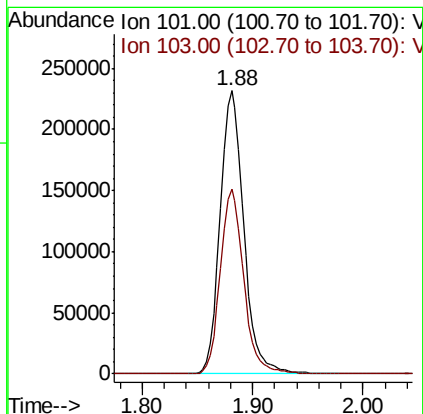
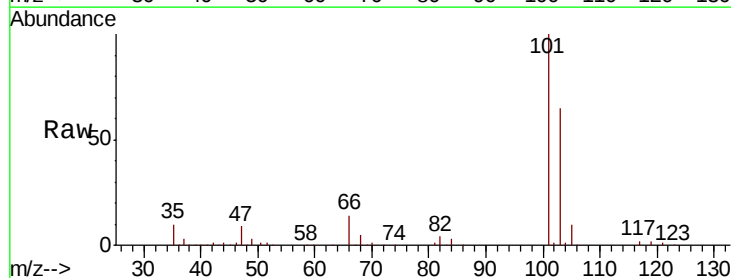
Instrument :
MSVOA_U
ClientSampleId :
VSTD20058

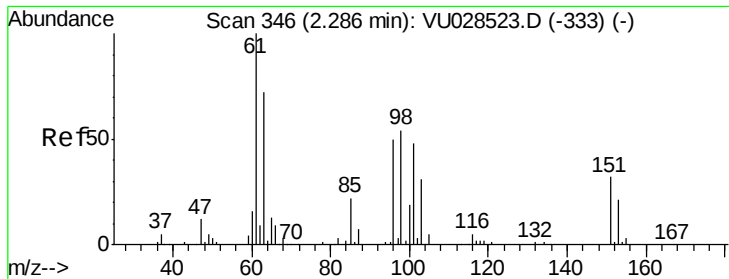
Tgt Ion: 64 Resp: 187099
Ion Ratio Lower Upper
64 100
66 31.5 22.4 41.6



#9
Trichlorofluoromethane
Concen: 202.702 ug/L
RT: 1.88 min Scan# 220
Delta R.T. -0.01 min
Lab File: VU028525.D
Acq: 07 Dec 2018 11:22

Tgt Ion: 101 Resp: 345209
Ion Ratio Lower Upper
101 100
103 64.8 51.8 77.6





#10

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

Concen: 207.419 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD20058

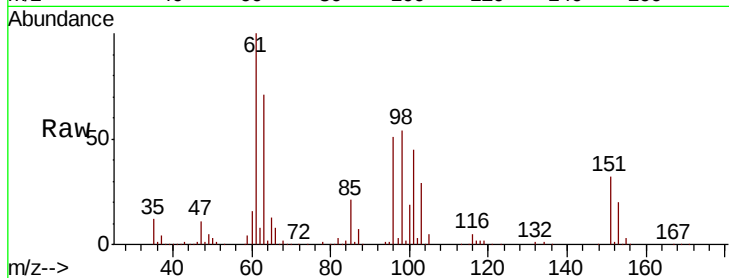
Tgt Ion:101 Resp: 206568

Ion Ratio Lower Upper

101 100

85 45.4 36.8 55.2

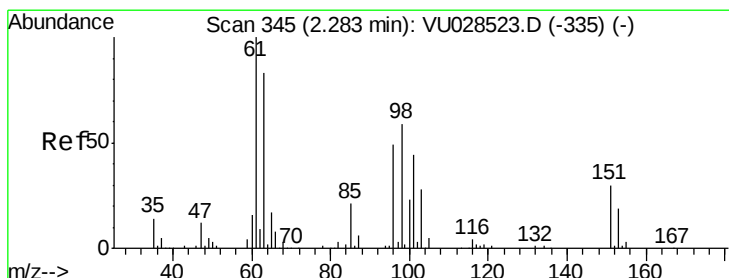
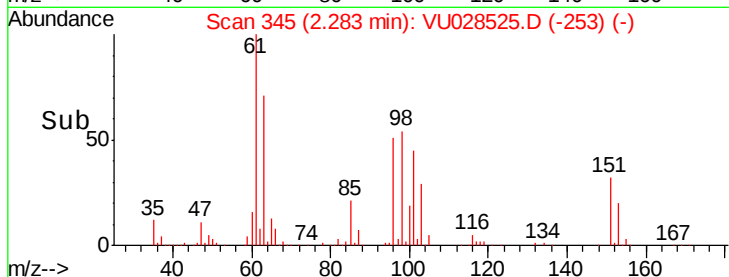
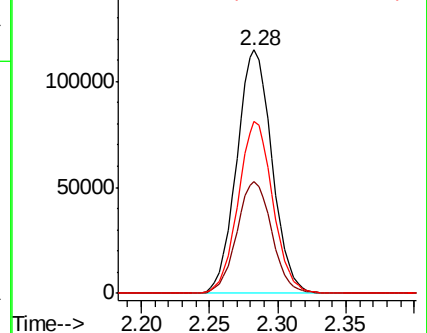
151 69.3 55.8 83.8



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: 213.695 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

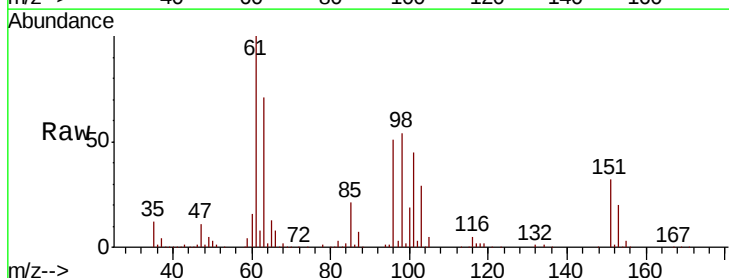
Tgt Ion: 96 Resp: 204166

Ion Ratio Lower Upper

96 100

61 194.2 143.2 266.0

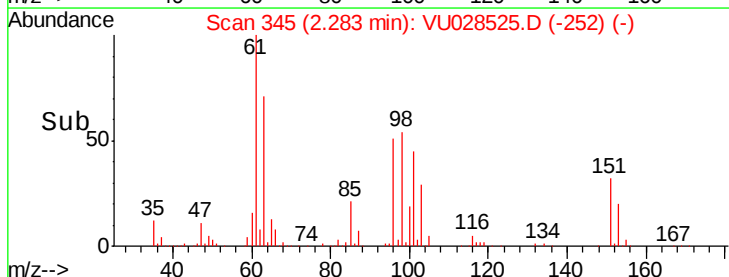
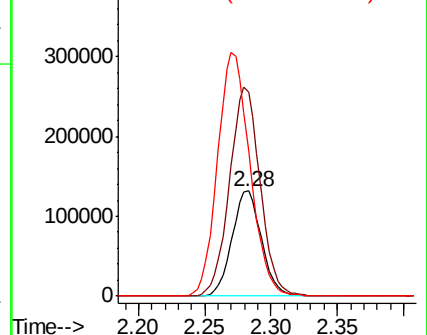
63 137.9 130.1 241.7

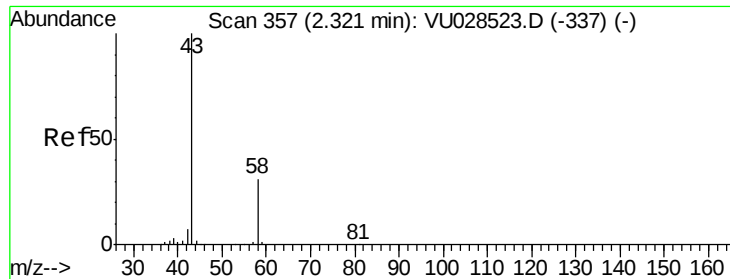


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 361.376 ug/L

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

Instrument :

MSVOA_U

ClientSampleId :

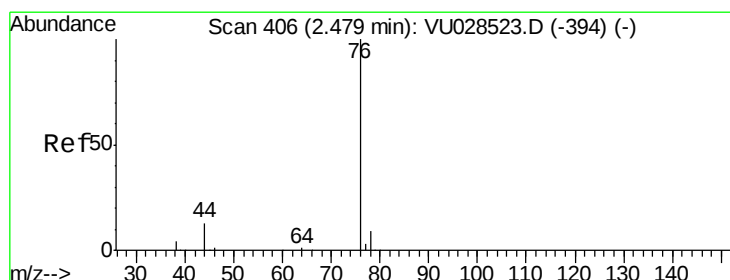
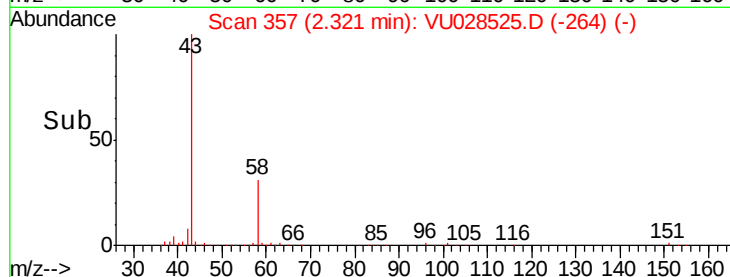
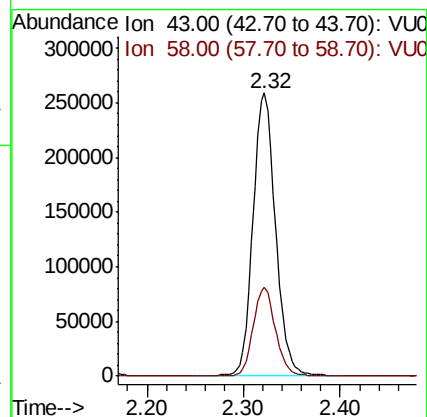
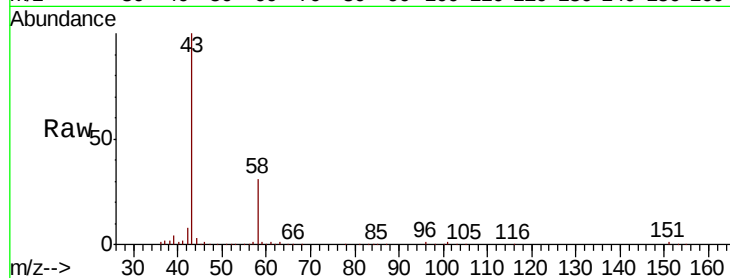
VSTD20058

Tgt Ion: 43 Resp: 419959

Ion Ratio Lower Upper

43 100

58 31.3 0.0 62.0



#14

Carbon disulfide

Concen: 200.230 ug/L

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU028525.D

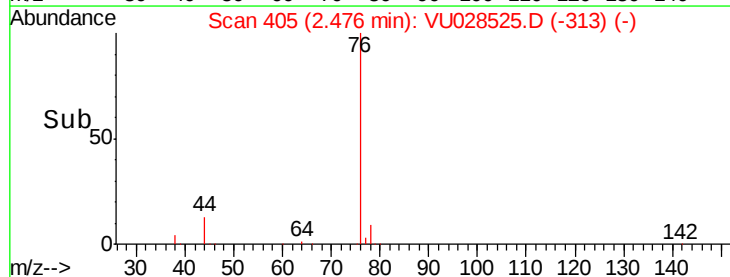
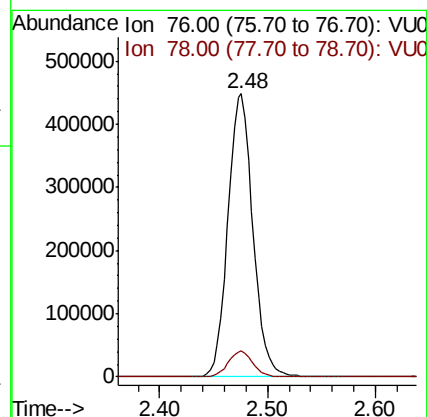
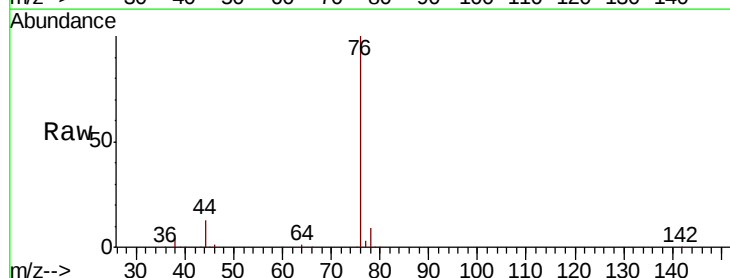
Acq: 07 Dec 2018 11:22

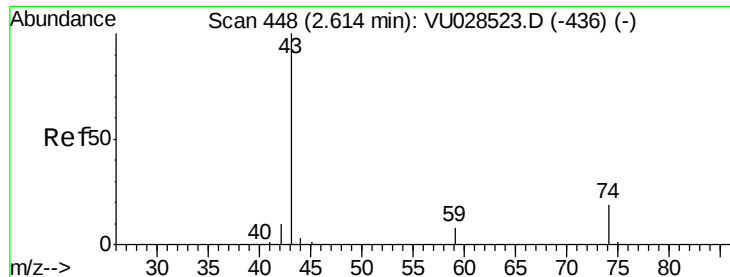
Tgt Ion: 76 Resp: 721687

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9

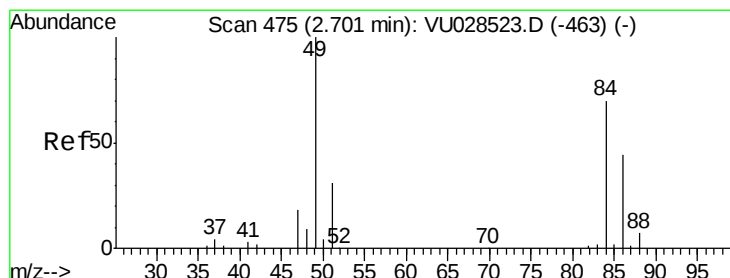
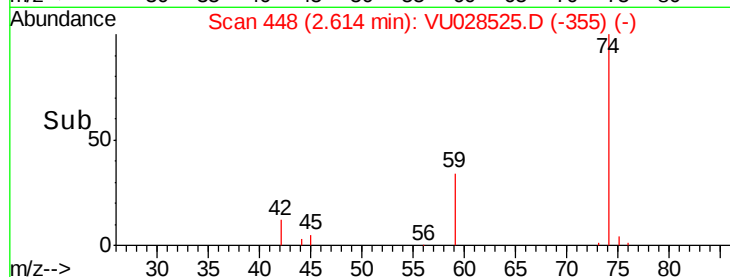
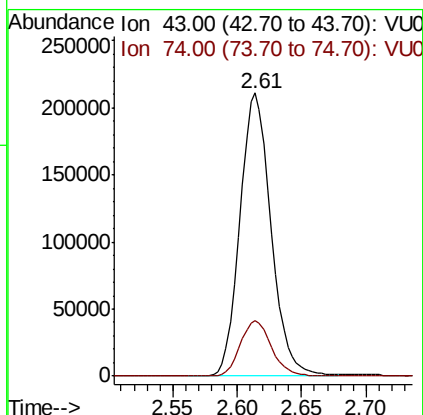
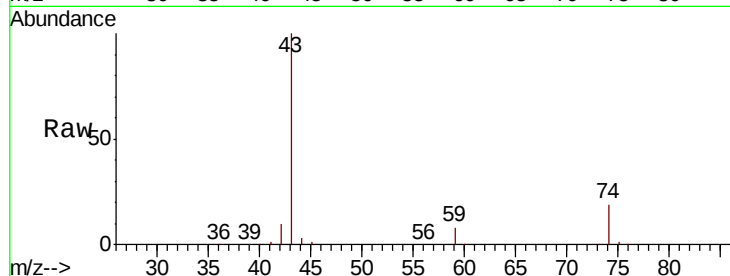




#15
Methyl Acetate
Concen: 207.791 ug/L
RT: 2.61 min Scan# 448
Delta R.T. -0.00 min
Lab File: VU028525.D
Acq: 07 Dec 2018 11:22

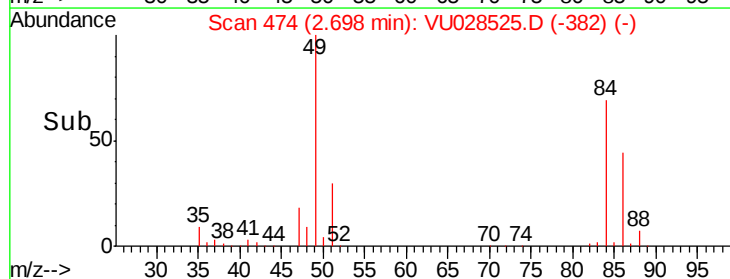
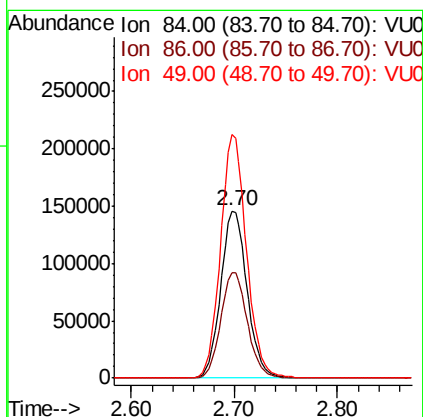
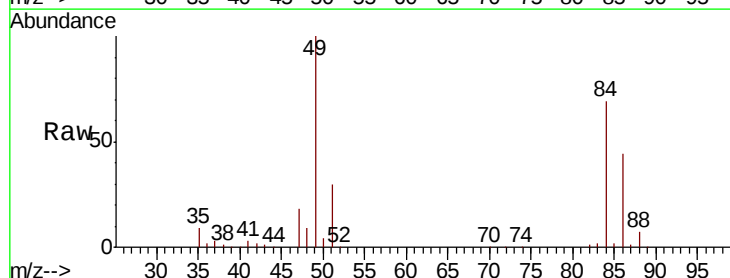
Instrument :
MSVOA_U
ClientSampleId :
VSTD20058

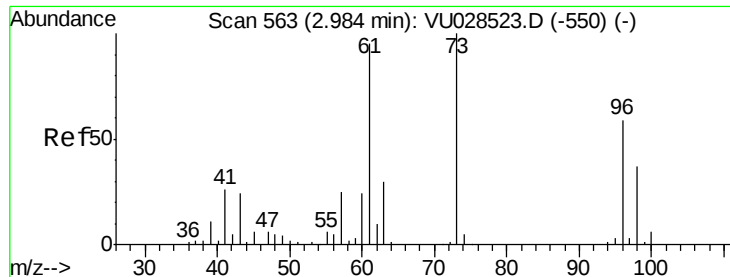
Tgt Ion: 43 Resp: 354577
Ion Ratio Lower Upper
43 100
74 19.5 15.4 23.0



#16
Methylene chloride
Concen: 209.789 ug/L
RT: 2.70 min Scan# 474
Delta R.T. -0.00 min
Lab File: VU028525.D
Acq: 07 Dec 2018 11:22

Tgt Ion: 84 Resp: 259303
Ion Ratio Lower Upper
84 100
86 63.3 44.3 82.3
49 145.5 100.0 185.6





#17

trans-1,2-Dichloroethene

Concen: 211.731 ug/L

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD20058

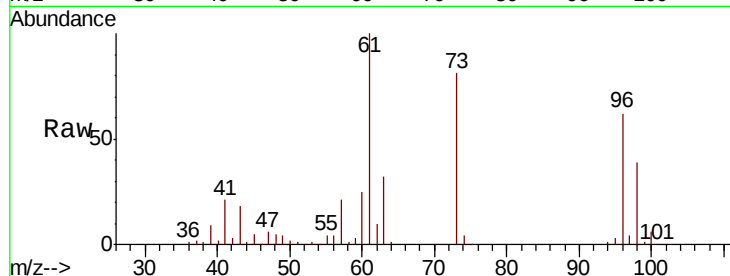
Tgt Ion: 96 Resp: 229819

Ion Ratio Lower Upper

96 100

61 161.0 112.8 209.4

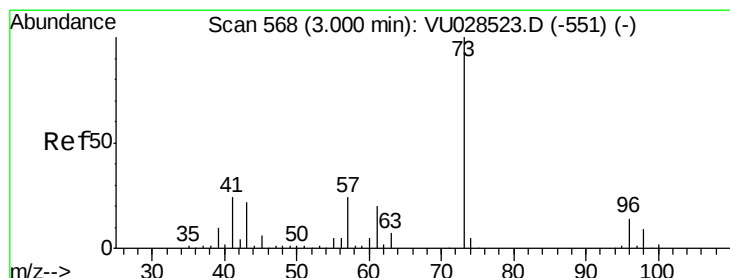
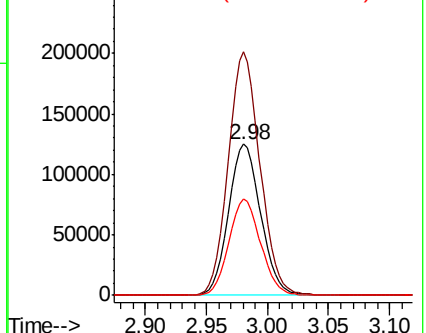
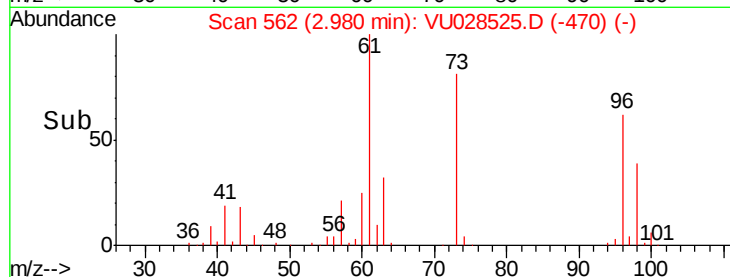
98 63.5 43.8 81.3



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: 207.489 ug/L

RT: 3.00 min Scan# 568

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

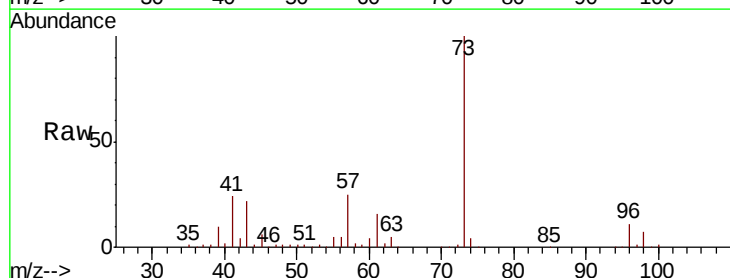
Tgt Ion: 73 Resp: 781102

Ion Ratio Lower Upper

73 100

43 22.1 18.1 27.1

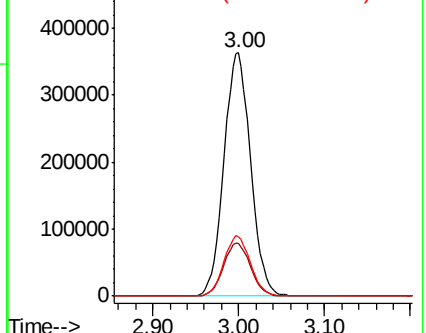
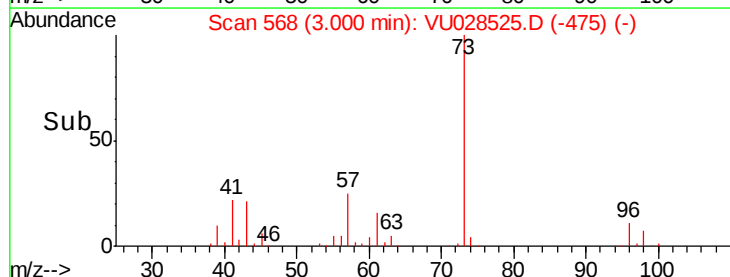
57 24.6 19.7 29.5

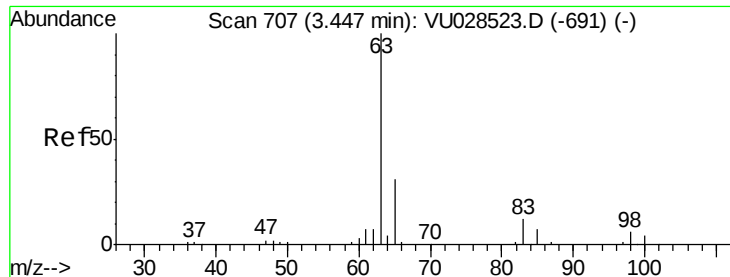


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 207.862 ug/L

RT: 3.44 min Scan# 706

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD20058

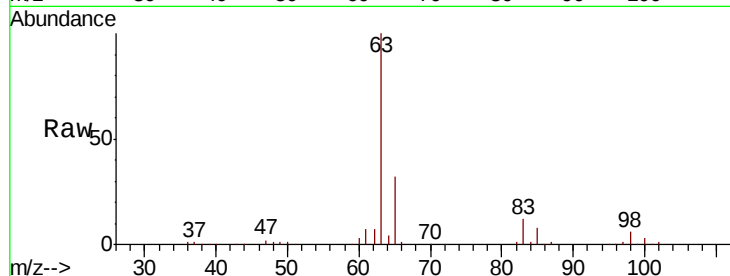
Tgt Ion: 63 Resp: 487938

Ion Ratio Lower Upper

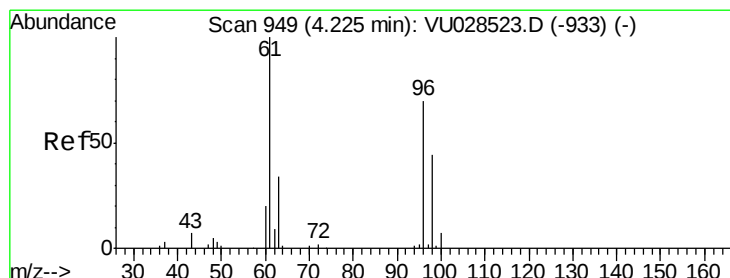
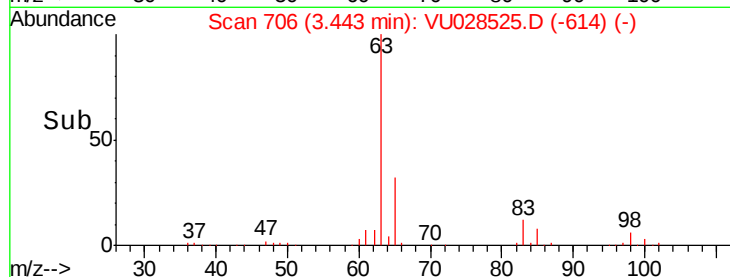
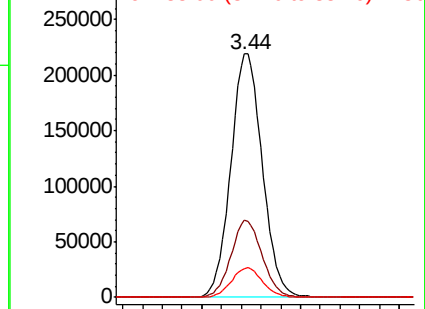
63 100

65 31.6 21.8 40.4

83 11.9 8.5 15.7



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: 209.147 ug/L

RT: 4.22 min Scan# 949

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

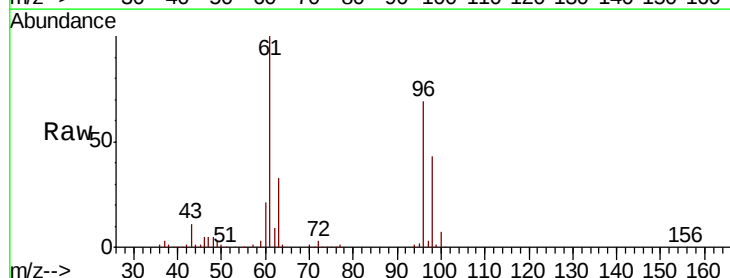
Tgt Ion: 96 Resp: 261846

Ion Ratio Lower Upper

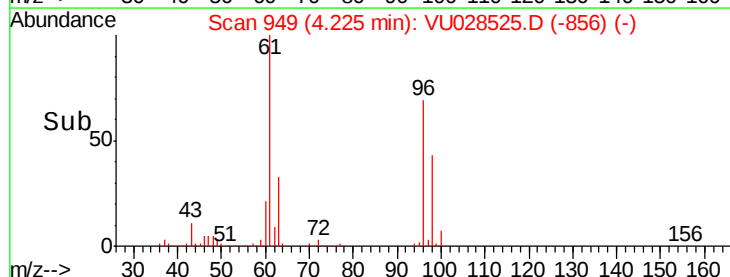
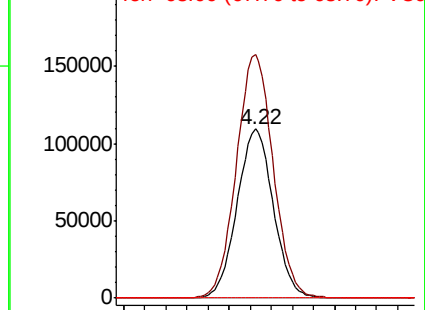
96 100

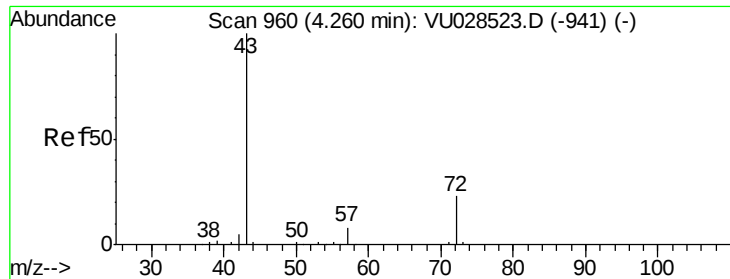
61 144.1 100.1 185.9

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: 404.660 ug/L

RT: 4.26 min Scan# 959

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

Instrument :

MSVOA_U

ClientSampleId :

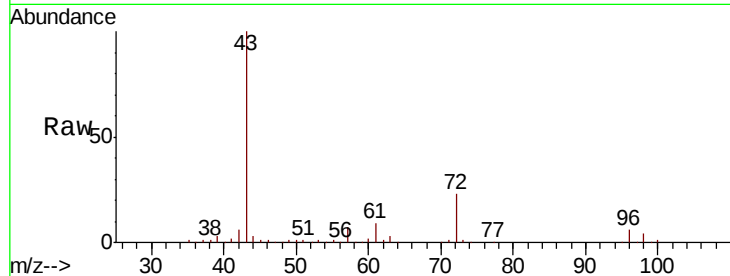
VSTD20058

Tgt Ion: 43 Resp: 580788

Ion Ratio Lower Upper

43 100

72 23.2 11.9 35.5



Abundance Ion 43.00 (42.70 to 43.70): VU028523.D (-941) (-)

Ion 72.00 (71.70 to 72.70): VU028523.D (-941) (-)

4.26

250000

200000

150000

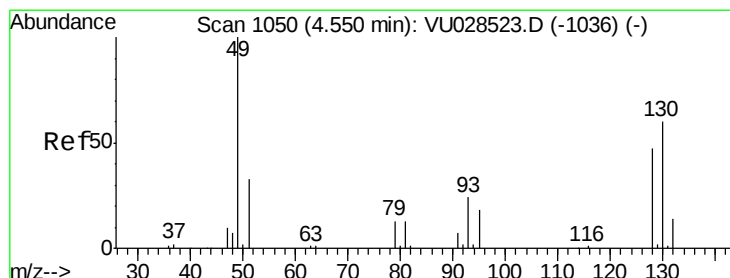
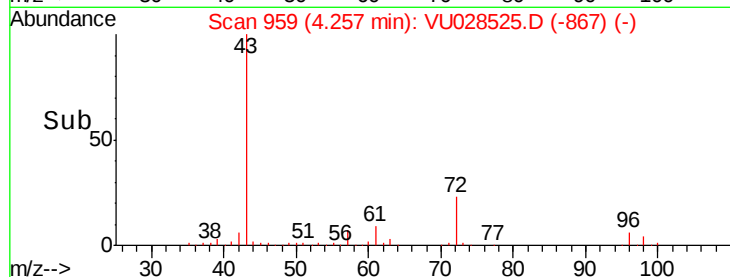
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 203.983 ug/L

RT: 4.55 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

Tgt Ion: 128 Resp: 111948

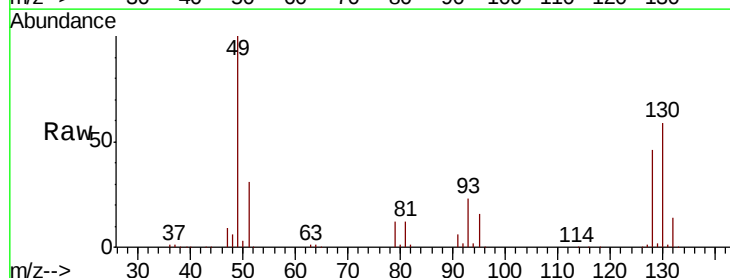
Ion Ratio Lower Upper

128 100

49 215.7 150.8 280.1

130 126.2 90.9 168.7

51 67.0 56.7 85.1



Abundance Ion 128.00 (127.70 to 128.70): VU028523.D (-1036) (-)

Ion 49.00 (48.70 to 49.70): VU028523.D (-1036) (-)

Ion 130.00 (129.70 to 130.70): VU028523.D (-1036) (-)

Ion 51.00 (50.70 to 51.70): VU028523.D (-1036) (-)

150000

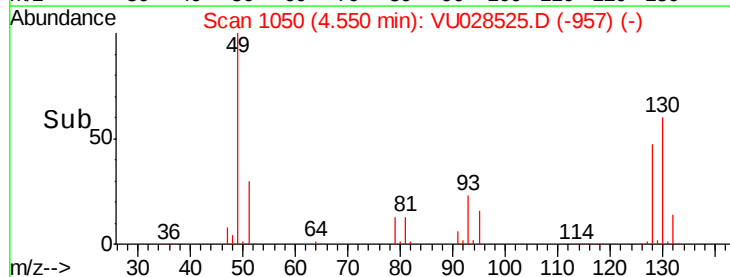
100000

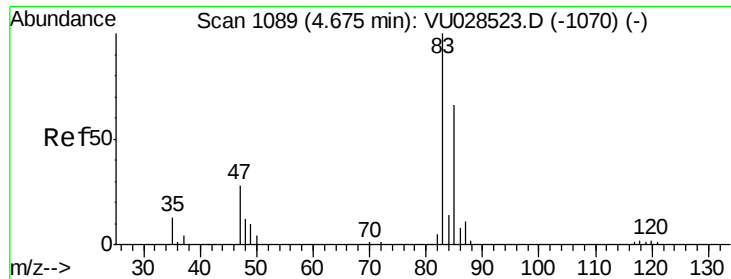
50000

0

4.45 4.50 4.55 4.60 4.65

Time-->

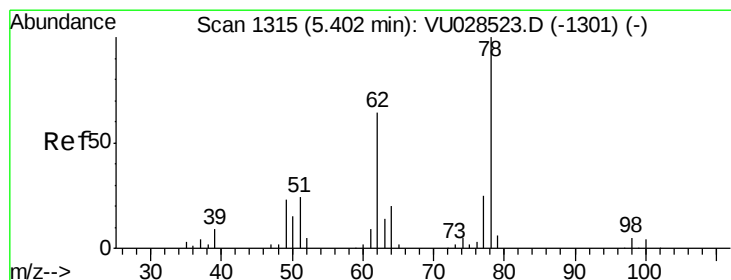
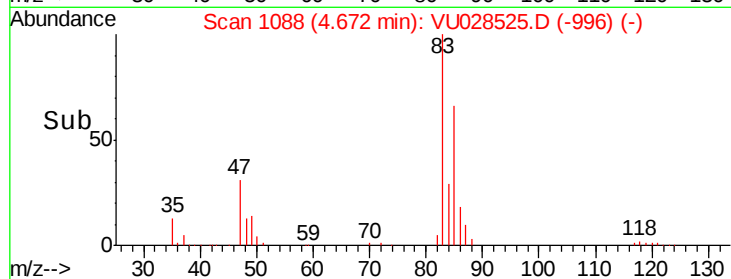
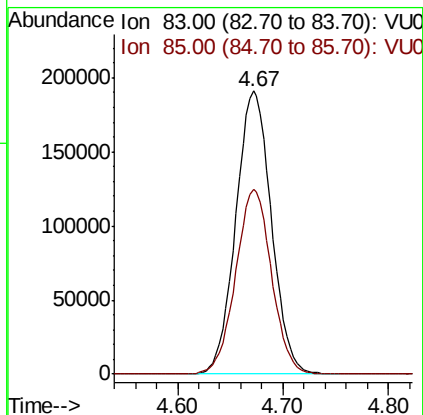
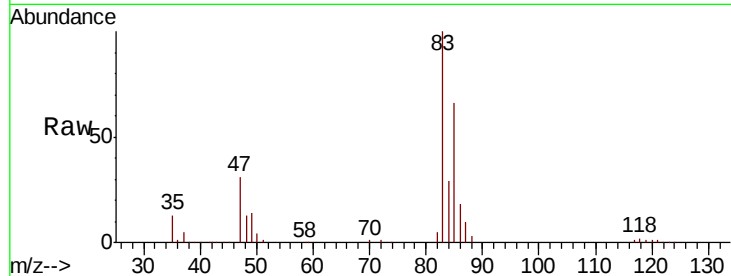




#25
Chloroform
Concen: 208.529 ug/L
RT: 4.67 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VU028525.D
Acq: 07 Dec 2018 11:22

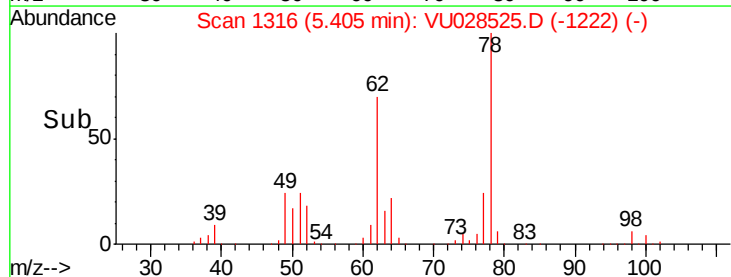
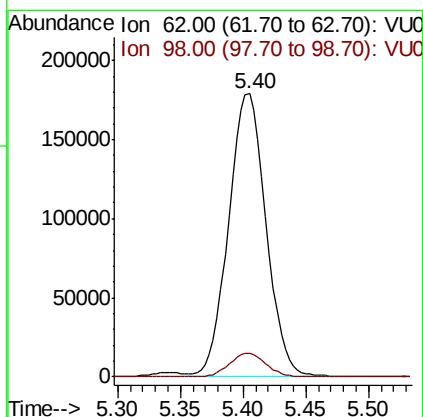
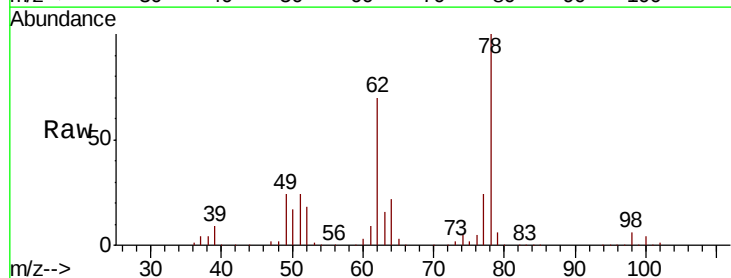
Instrument :
MSVOA_U
ClientSampleId :
VSTD20058

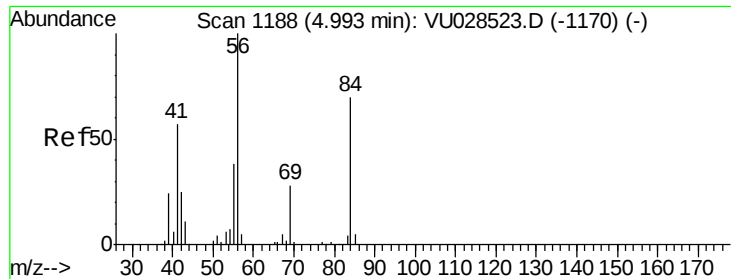
Tgt Ion: 83 Resp: 447358
Ion Ratio Lower Upper
83 100
85 65.5 46.0 85.4



#27
1,2-Dichloroethane
Concen: 207.925 ug/L
RT: 5.40 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VU028525.D
Acq: 07 Dec 2018 11:22

Tgt Ion: 62 Resp: 369405
Ion Ratio Lower Upper
62 100
98 8.3 6.7 10.1

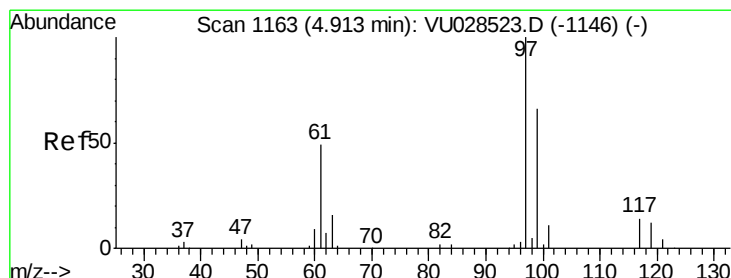
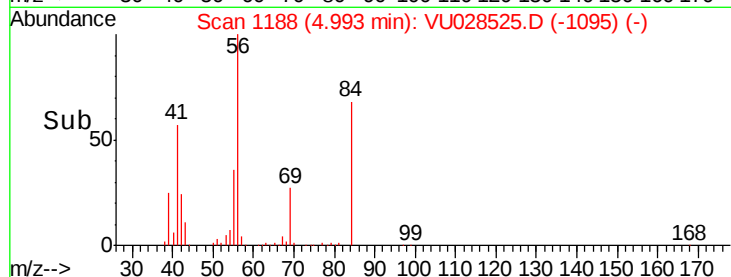
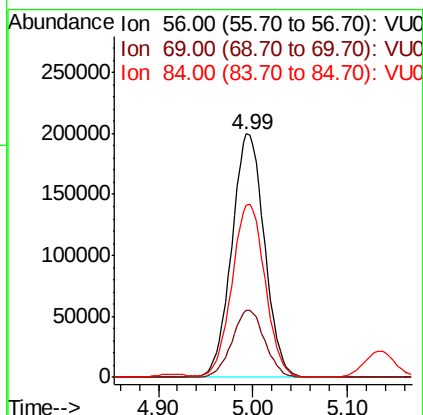
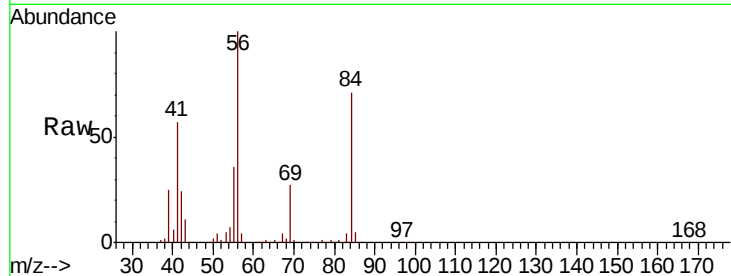




#29
Cyclohexane
Concen: 197.959 ug/L
RT: 4.99 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU028525.D
Acq: 07 Dec 2018 11:22

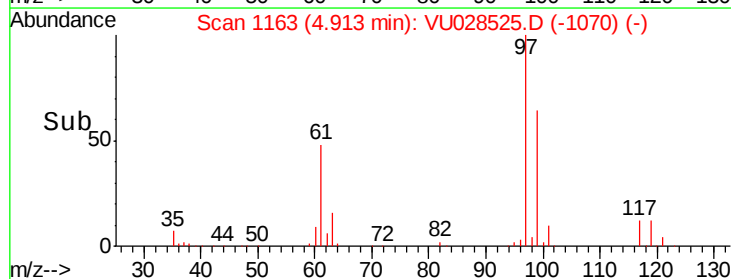
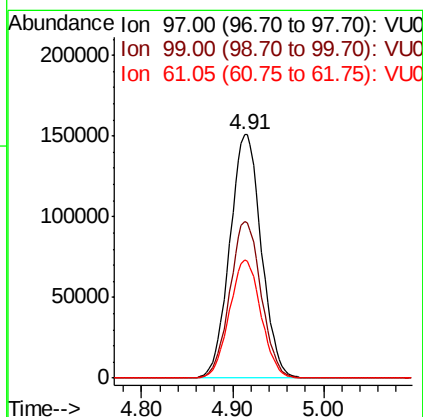
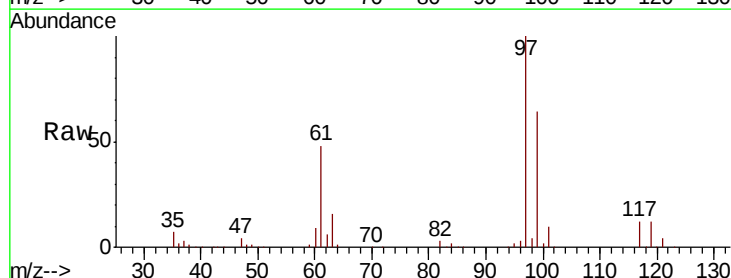
Instrument :
MSVOA_U
ClientSampleId :
VSTD20058

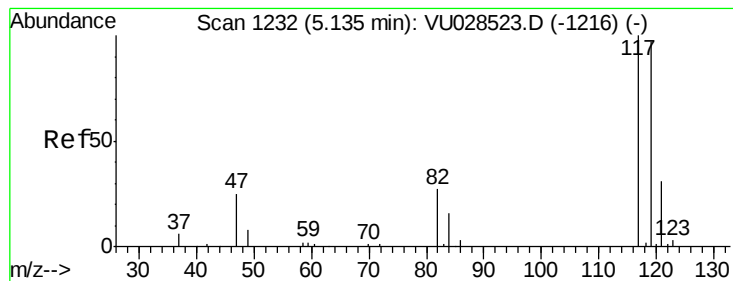
Tgt Ion: 56 Resp: 478877
Ion Ratio Lower Upper
56 100
69 27.6 22.2 33.2
84 72.2 57.5 86.3



#30
1,1,1-Trichloroethane
Concen: 205.153 ug/L
RT: 4.91 min Scan# 1163
Delta R.T. -0.00 min
Lab File: VU028525.D
Acq: 07 Dec 2018 11:22

Tgt Ion: 97 Resp: 363327
Ion Ratio Lower Upper
97 100
99 64.1 51.4 77.0
61 48.6 38.7 58.1





#31

Carbon tetrachloride

Concen: 208.815 ug/L

RT: 5.13 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

Instrument :

MSVOA_U

ClientSampled :

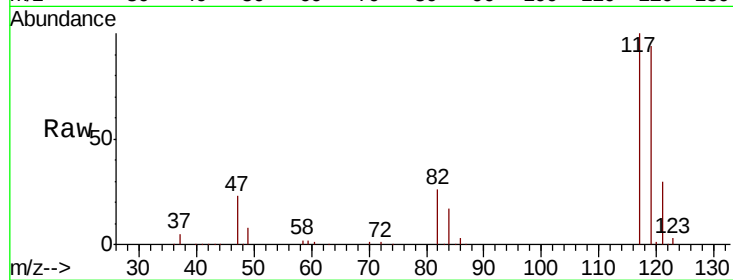
VSTD20058

Tgt Ion:117 Resp: 297447

Ion Ratio Lower Upper

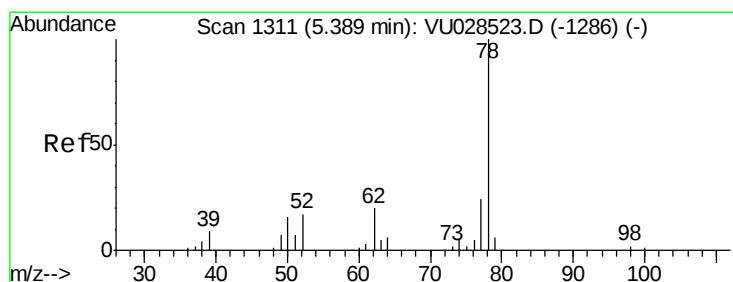
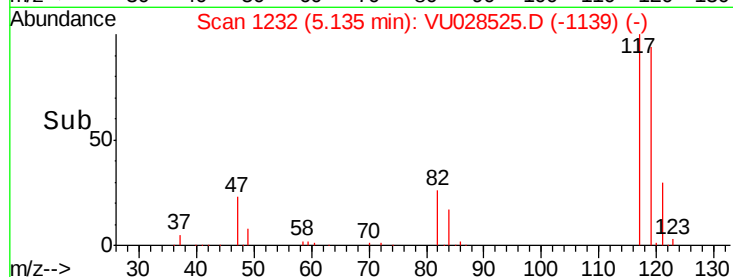
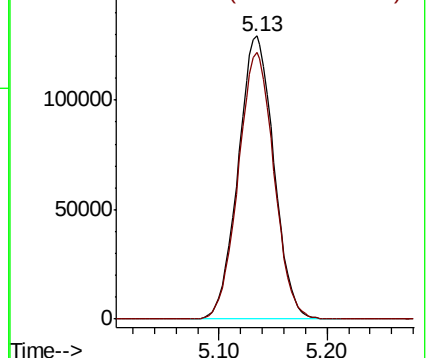
117 100

119 94.2 77.4 116.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 202.810 ug/L

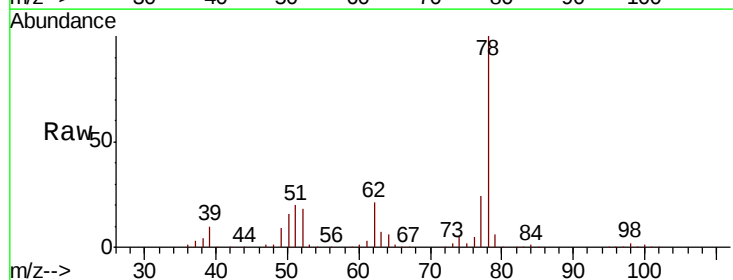
RT: 5.39 min Scan# 1311

Delta R.T. -0.00 min

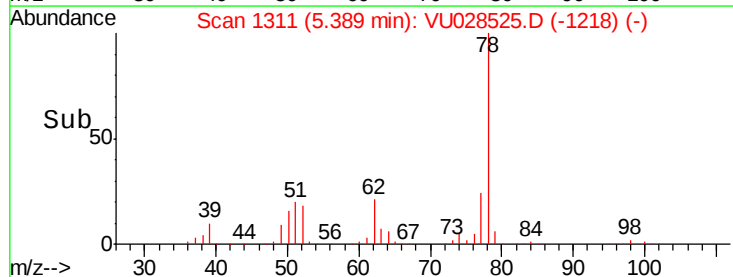
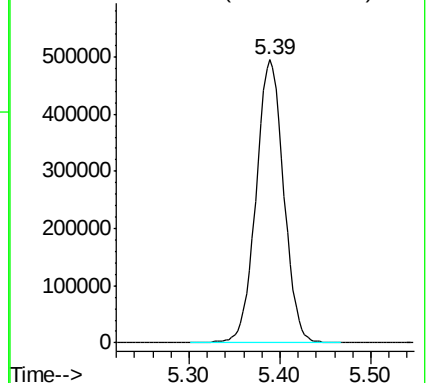
Lab File: VU028525.D

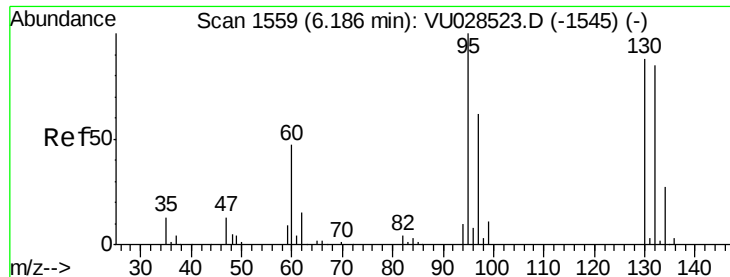
Acq: 07 Dec 2018 11:22

Tgt Ion: 78 Resp: 1042602



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 204.560 ug/L

RT: 6.18 min Scan# 1558

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD20058

Tgt Ion: 95 Resp: 252835

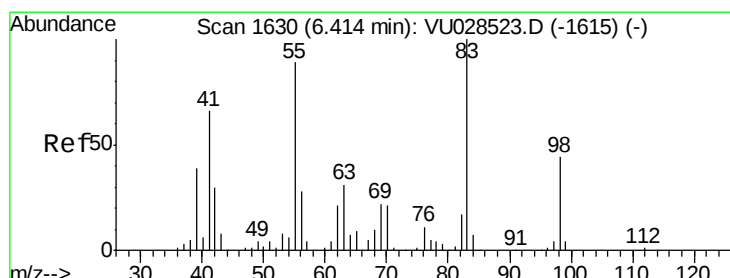
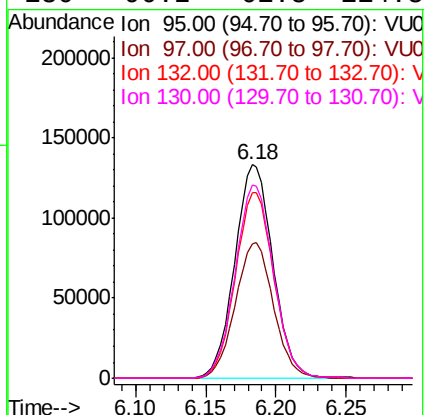
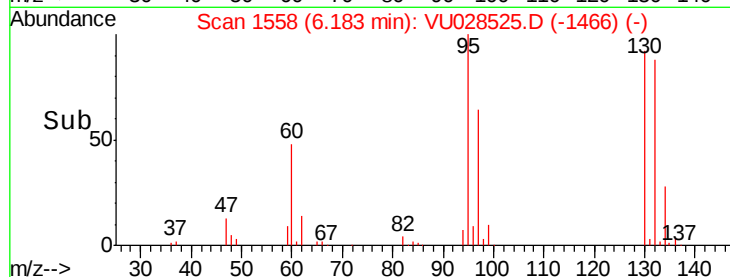
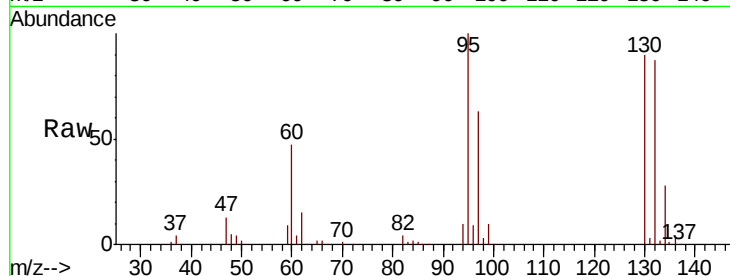
Ion Ratio Lower Upper

95 100

97 62.9 43.5 80.9

132 86.7 59.6 110.6

130 90.2 61.8 114.8



#35

Methylcyclohexane

Concen: 200.494 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

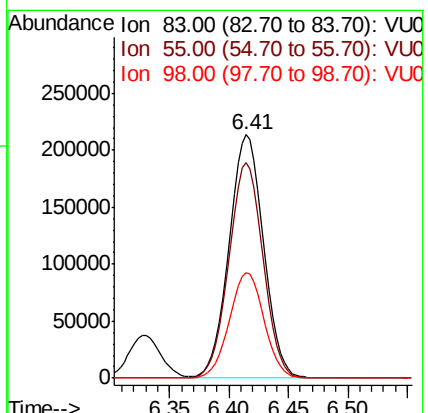
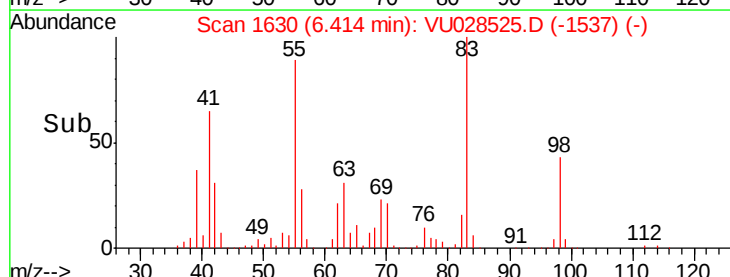
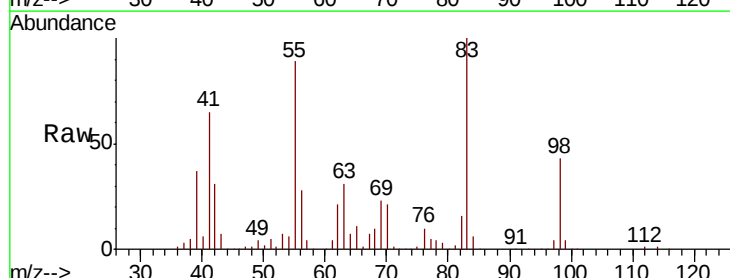
Tgt Ion: 83 Resp: 428610

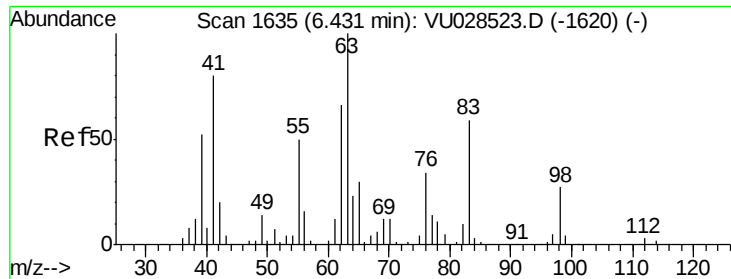
Ion Ratio Lower Upper

83 100

55 88.1 70.1 105.1

98 43.6 34.4 51.6

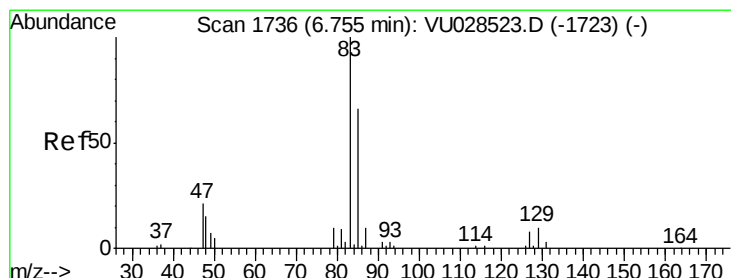
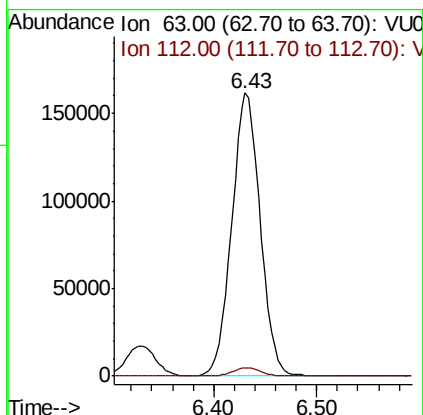
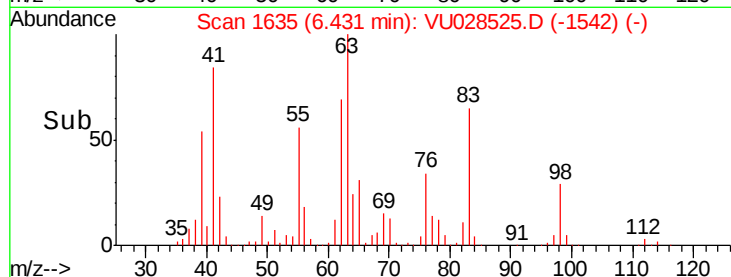
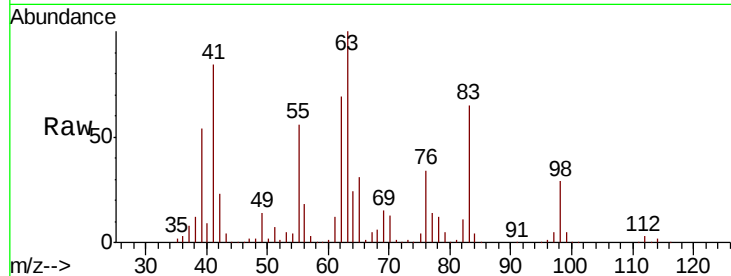




#37
 1,2-Dichloropropane
 Concen: 203.119 ug/L
 RT: 6.43 min Scan# 1635
 Delta R.T. -0.00 min
 Lab File: VU028525.D
 Acq: 07 Dec 2018 11:22

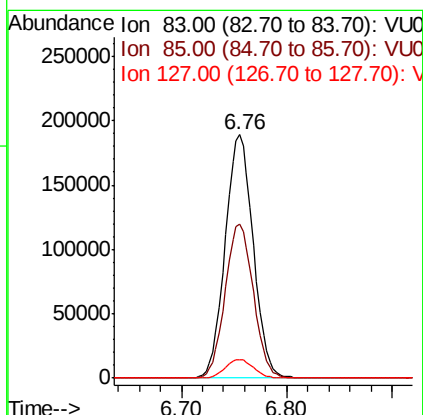
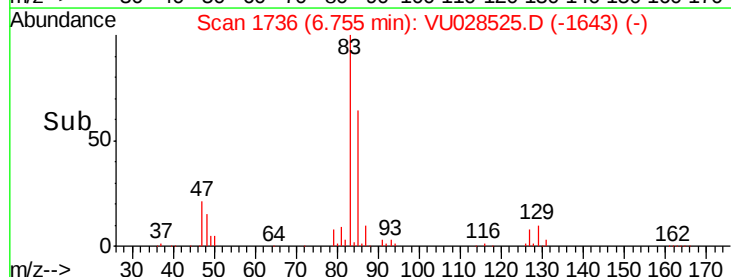
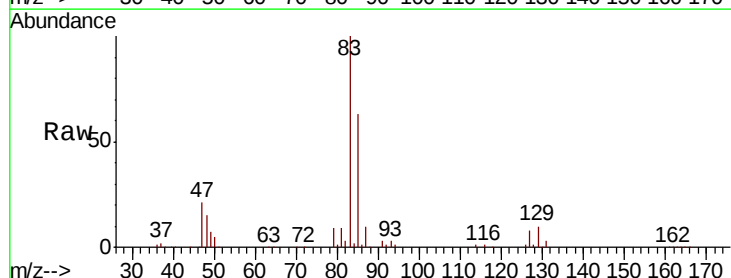
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20058

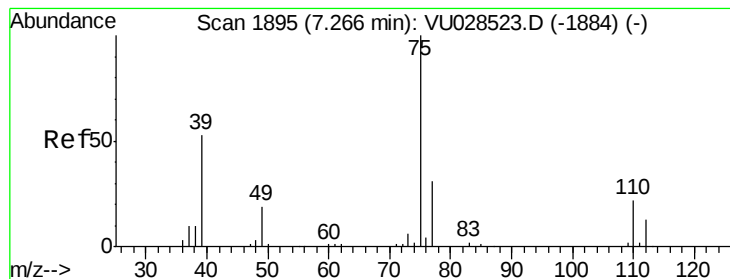
Tgt Ion: 63 Resp: 309511
 Ion Ratio Lower Upper
 63 100
 112 3.0 2.4 3.6



#38
 Bromodichloromethane
 Concen: 205.648 ug/L
 RT: 6.76 min Scan# 1736
 Delta R.T. -0.00 min
 Lab File: VU028525.D
 Acq: 07 Dec 2018 11:22

Tgt Ion: 83 Resp: 346953
 Ion Ratio Lower Upper
 83 100
 85 63.2 46.5 86.3
 127 7.6 6.3 9.5



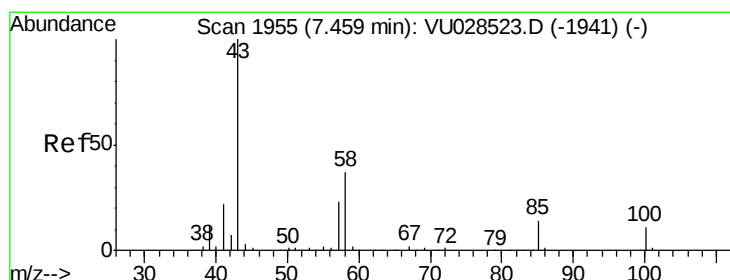
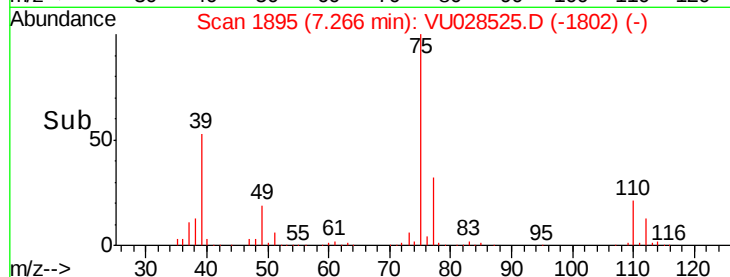
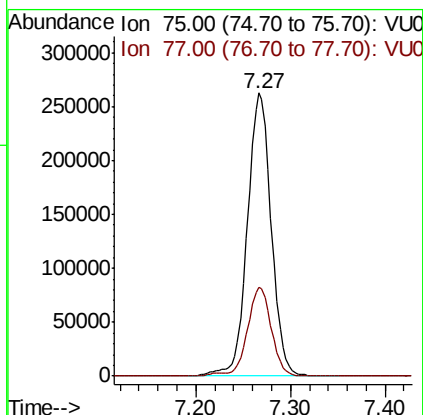
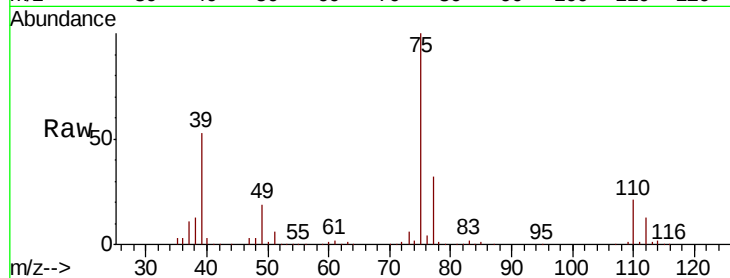


#39

cis-1,3-Dichloropropene
Concen: 212.664 ug/L
RT: 7.27 min Scan# 1895
Delta R.T. -0.00 min
Lab File: VU028525.D
Acq: 07 Dec 2018 11:22

Instrument :
MSVOA_U
ClientSampled :
VSTD20058

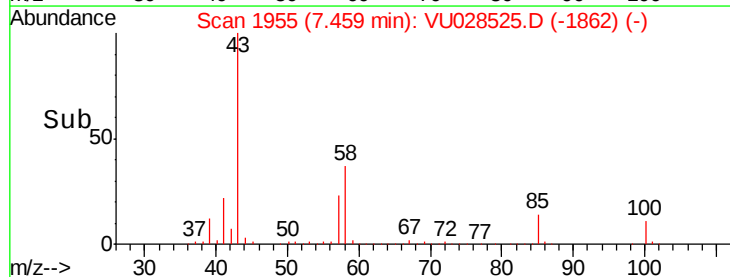
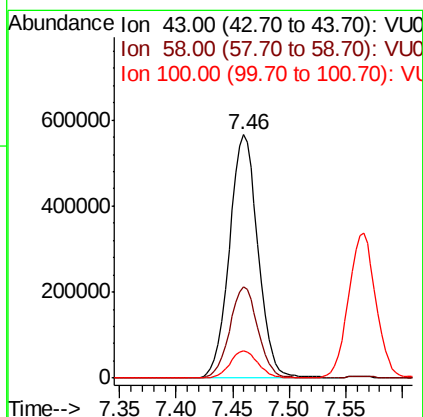
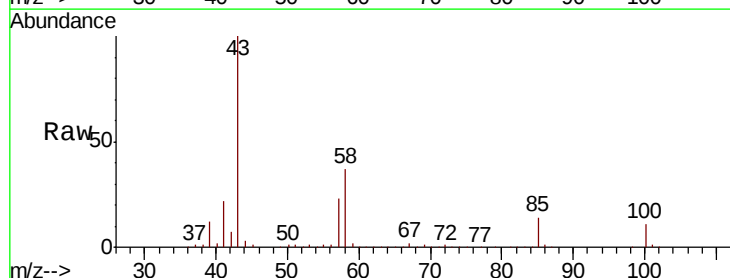
Tgt Ion: 75 Resp: 460506
Ion Ratio Lower Upper
75 100
77 31.6 21.8 40.6

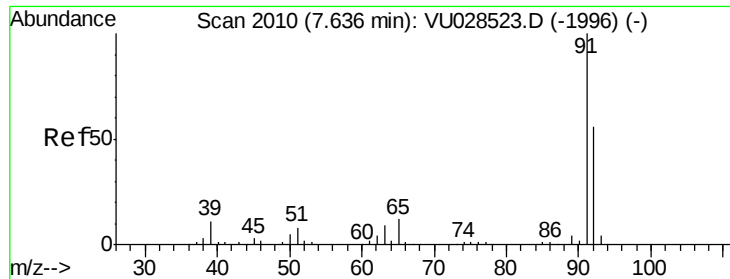


#40

4-Methyl-2-pentanone
Concen: 416.219 ug/L
RT: 7.46 min Scan# 1955
Delta R.T. -0.00 min
Lab File: VU028525.D
Acq: 07 Dec 2018 11:22

Tgt Ion: 43 Resp: 995019
Ion Ratio Lower Upper
43 100
58 37.1 29.6 44.4
100 11.1 9.0 13.4





#42

Toluene

Concen: 207.507 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

Instrument :

MSVOA_U

ClientSampleId :

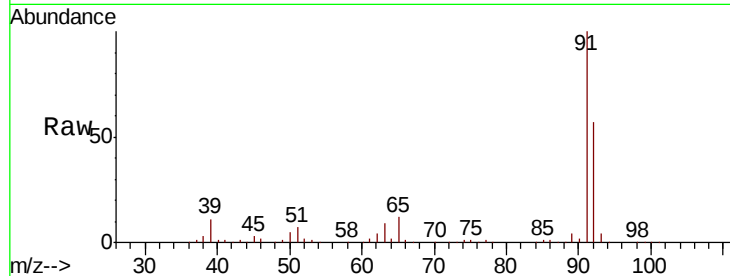
VSTD20058

Tgt Ion: 91 Resp: 1083372

Ion Ratio Lower Upper

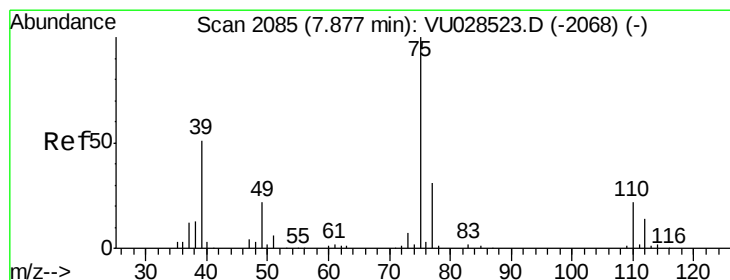
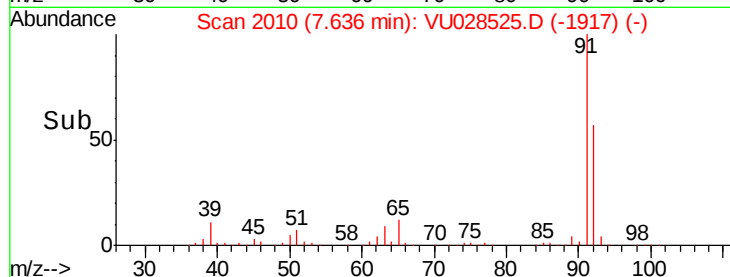
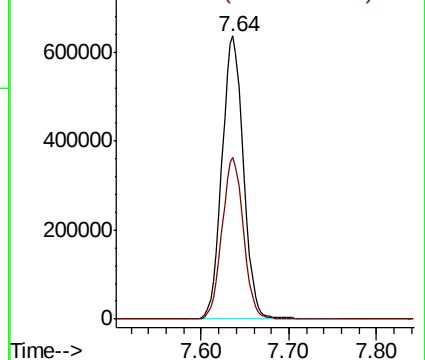
91 100

92 57.1 39.5 73.4



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: 213.429 ug/L

RT: 7.88 min Scan# 2085

Delta R.T. -0.00 min

Lab File: VU028525.D

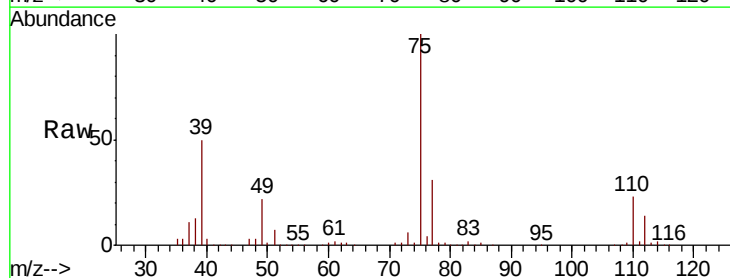
Acq: 07 Dec 2018 11:22

Tgt Ion: 75 Resp: 423486

Ion Ratio Lower Upper

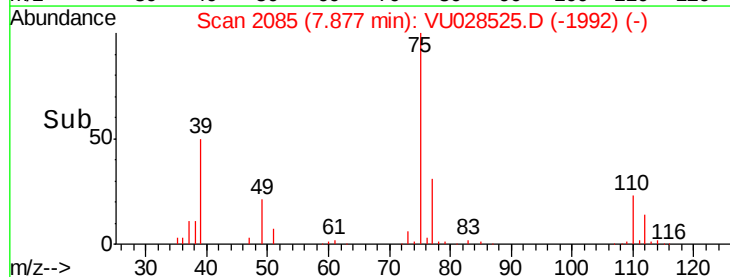
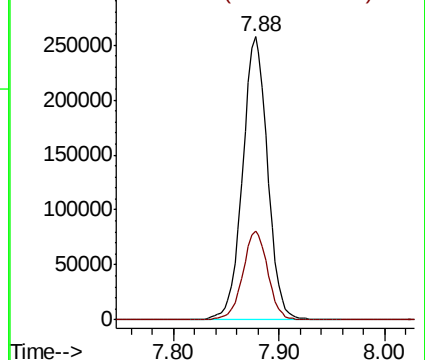
75 100

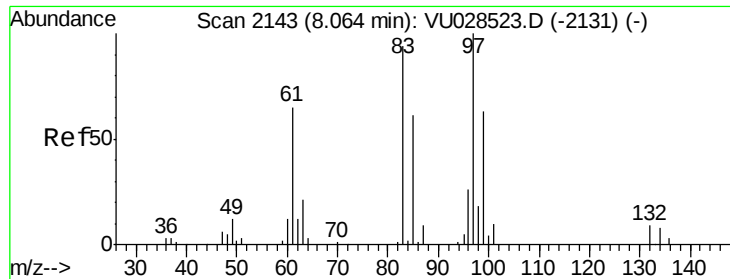
77 31.5 21.8 40.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

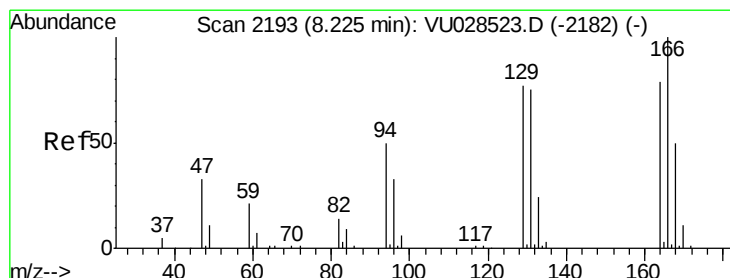
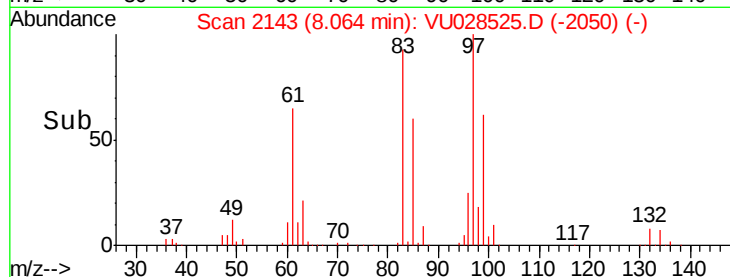
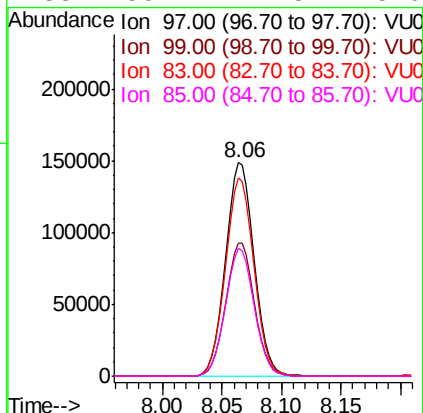
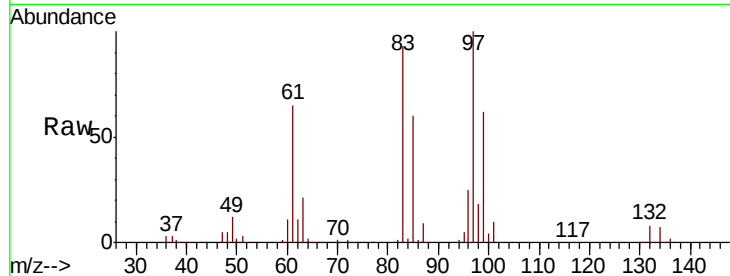




#45
1,1,2-Trichloroethane
Concen: 208.496 ug/L
RT: 8.06 min Scan# 2143
Delta R.T. -0.00 min
Lab File: VU028525.D
Acq: 07 Dec 2018 11:22

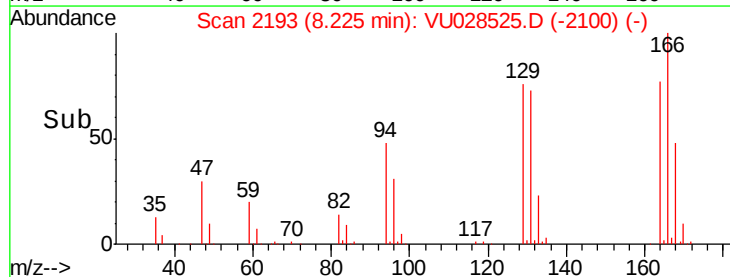
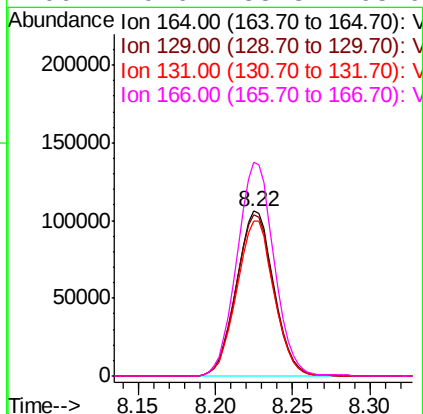
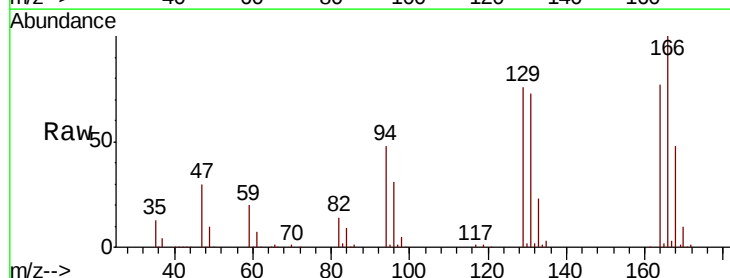
Instrument :
MSVOA_U
ClientSampleId :
VSTD20058

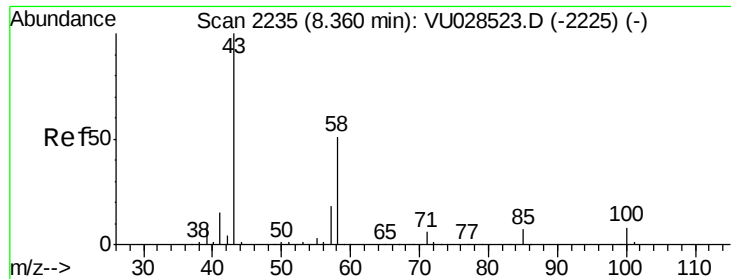
Tgt Ion:	97	Resp:	247932
Ion	Ratio	Lower	Upper
97	100		
99	62.4	44.2	82.2
83	92.7	66.0	122.6
85	59.7	42.5	78.9



#46
Tetrachloroethene
Concen: 205.574 ug/L
RT: 8.22 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VU028525.D
Acq: 07 Dec 2018 11:22

Tgt Ion:	164	Resp:	178043
Ion	Ratio	Lower	Upper
164	100		
129	98.3	68.2	126.6
131	94.2	66.1	122.7
166	129.6	88.3	163.9

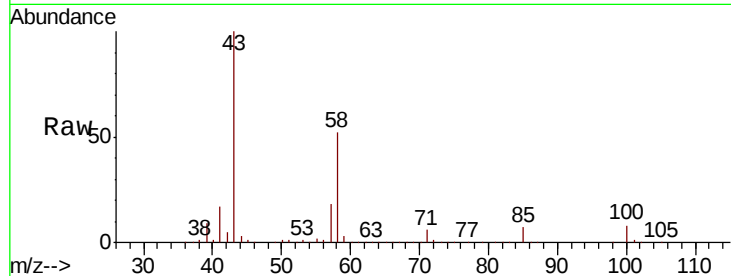




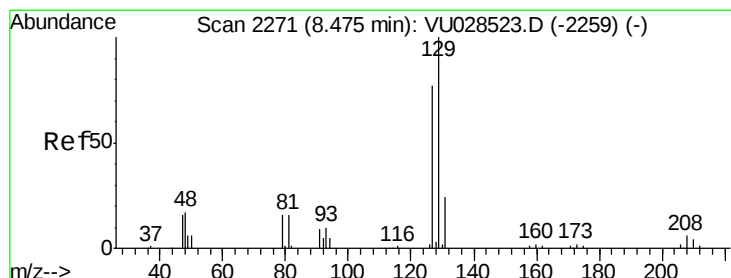
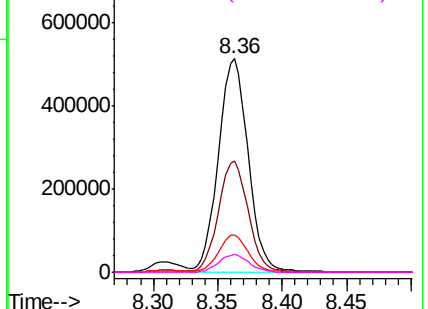
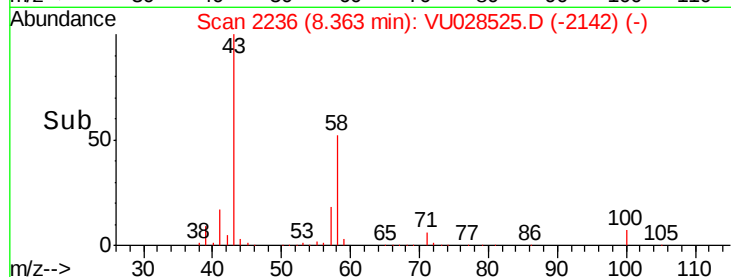
#48
2-Hexanone
Concen: 409.944 ug/L
RT: 8.36 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VU028525.D
Acq: 07 Dec 2018 11:22

Instrument :
MSVOA_U
ClientSampleId :
VSTD20058

Tgt Ion:	43	Resp:	822058
Ion	Ratio	Lower	Upper
43	100		
58	52.4	41.6	62.4
57	17.4	13.8	20.6
100	8.5	7.0	10.4

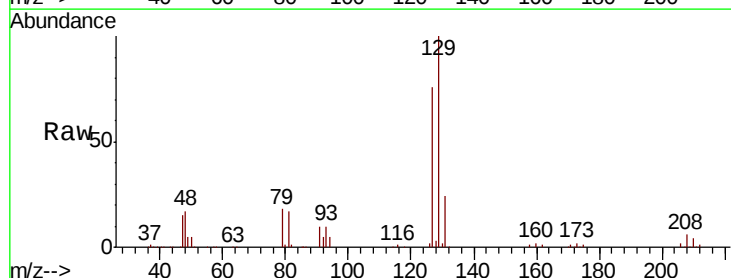


Abundance Ion 43.00 (42.70 to 43.70): VU028525.D (-2142) (-)
Ion 58.00 (57.70 to 58.70): VU028525.D (-2142) (-)
Ion 57.00 (56.70 to 57.70): VU028525.D (-2142) (-)
Ion 100.00 (99.70 to 100.70): VU028525.D (-2142) (-)

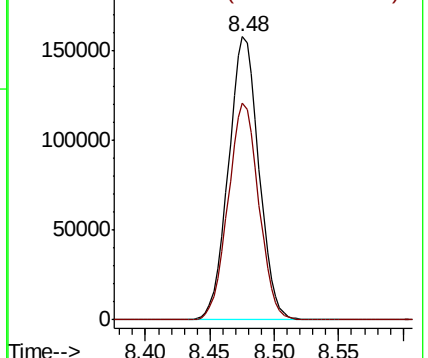
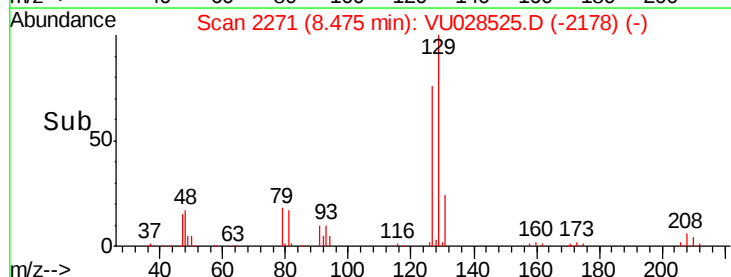


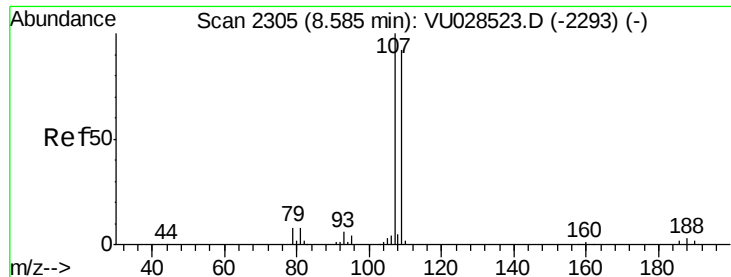
#49
Dibromochloromethane
Concen: 213.755 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU028525.D
Acq: 07 Dec 2018 11:22

Tgt Ion:	129	Resp:	258686
Ion	Ratio	Lower	Upper
129	100		
127	76.4	54.0	100.2



Abundance Ion 129.00 (128.70 to 129.70): VU028525.D (-2178) (-)
Ion 127.00 (126.70 to 127.70): VU028525.D (-2178) (-)

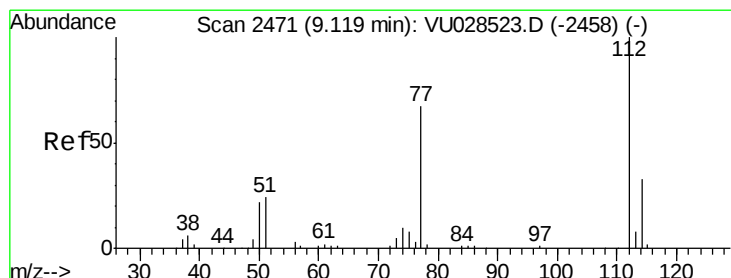
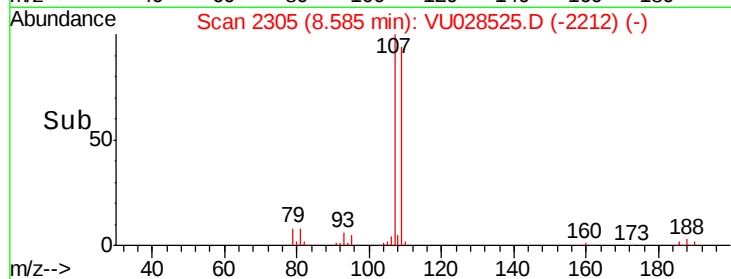
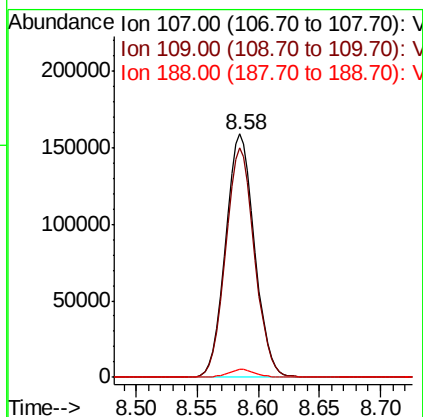
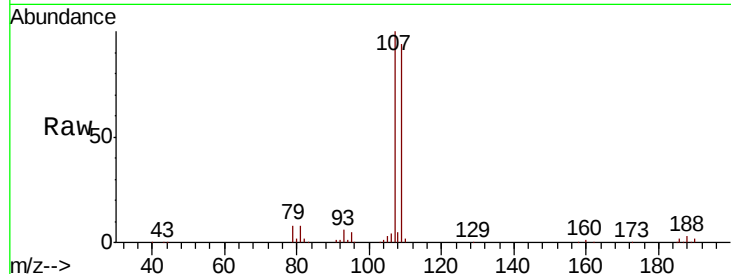




#50
1,2-Dibromoethane
Concen: 208.474 ug/L
RT: 8.58 min Scan# 2305
Delta R.T. -0.00 min
Lab File: VU028525.D
Acq: 07 Dec 2018 11:22

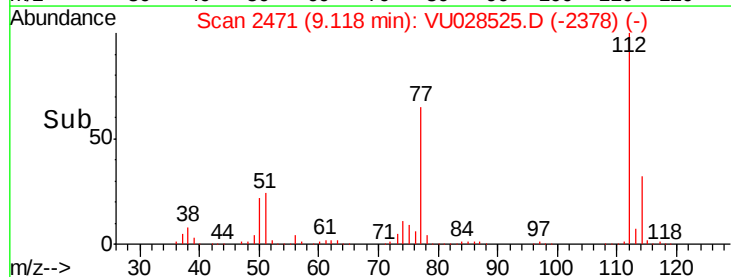
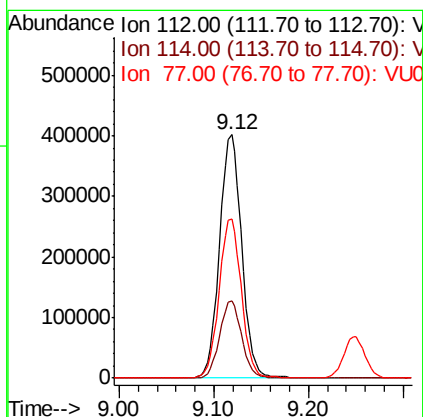
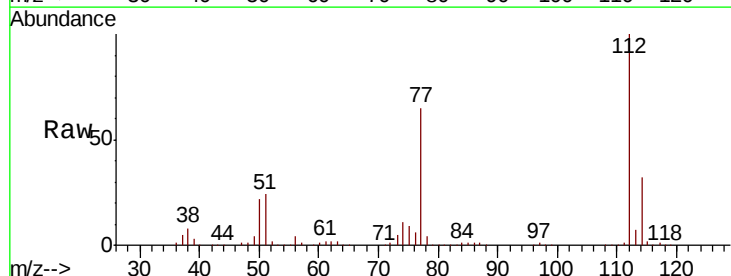
Instrument :
MSVOA_U
ClientSampleId :
VSTD20058

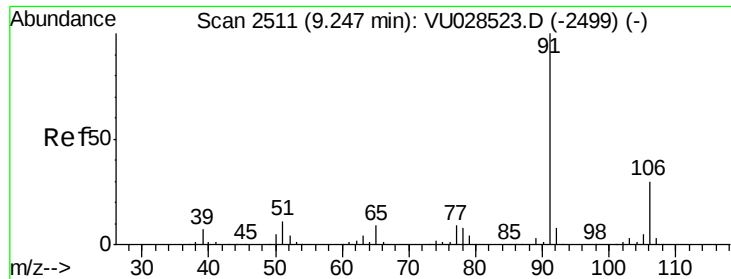
Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.1	64.5	119.9
188	3.1	2.6	3.8



#51
Chlorobenzene
Concen: 210.055 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU028525.D
Acq: 07 Dec 2018 11:22

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	23.0	42.6
77	65.4	53.9	80.9

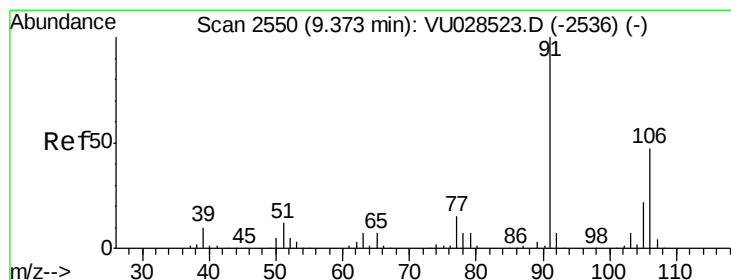
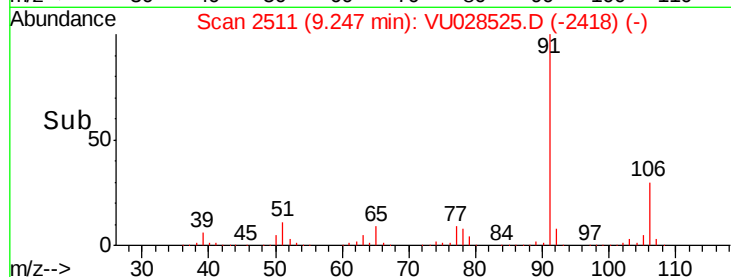
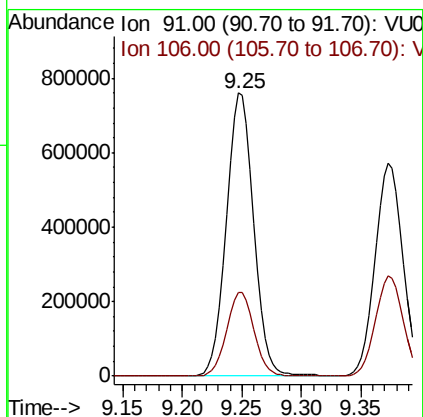
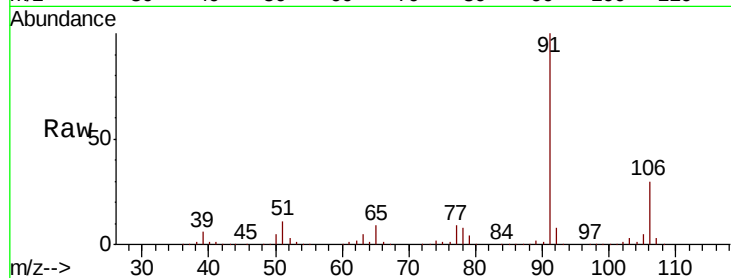




#52
Ethylbenzene
Concen: 210.188 ug/L
RT: 9.25 min Scan# 2511
Delta R.T. -0.00 min
Lab File: VU028525.D
Acq: 07 Dec 2018 11:22

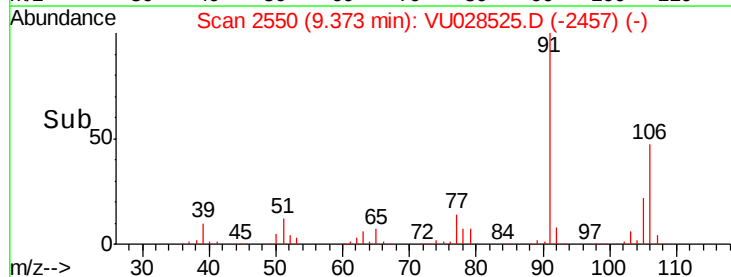
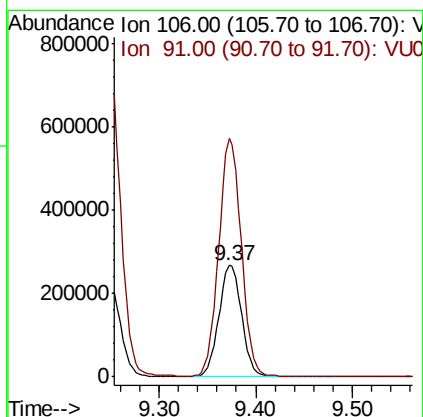
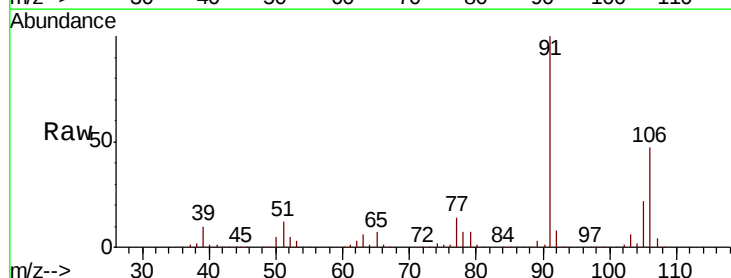
Instrument :
MSVOA_U
ClientSampleId :
VSTD20058

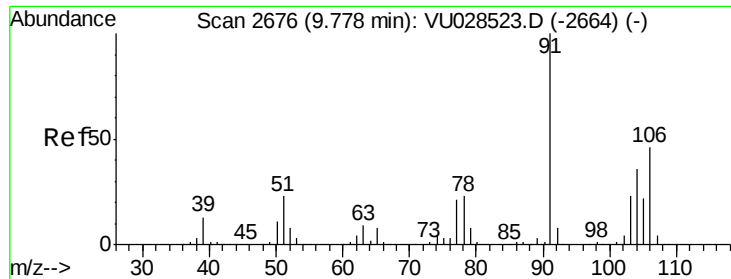
Tgt Ion: 91 Resp: 1212524
Ion Ratio Lower Upper
91 100
106 29.5 21.0 39.0



#53
m,p-Xylene
Concen: 213.002 ug/L
RT: 9.37 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VU028525.D
Acq: 07 Dec 2018 11:22

Tgt Ion: 106 Resp: 439418
Ion Ratio Lower Upper
106 100
91 213.3 148.8 276.4

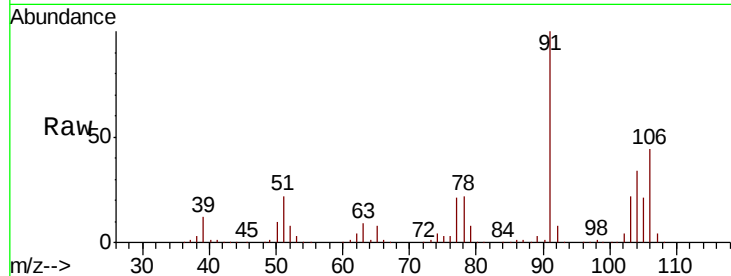




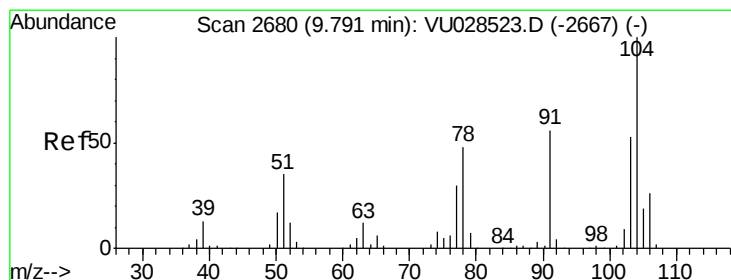
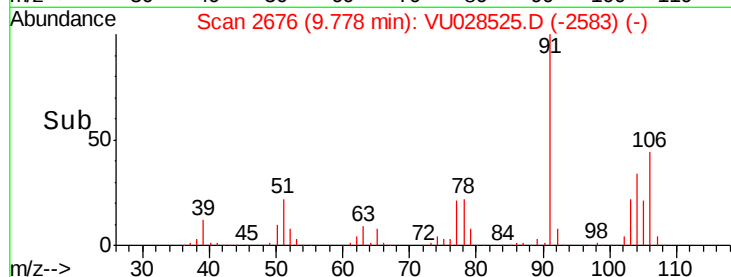
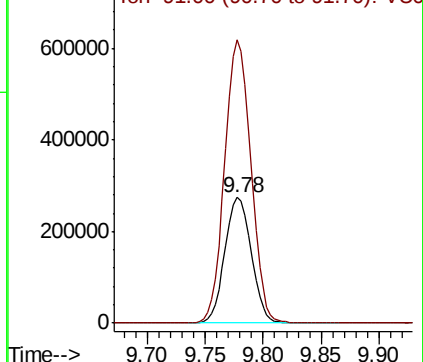
#54
o-xylene
Concen: 212.975 ug/L
RT: 9.78 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VU028525.D
Acq: 07 Dec 2018 11:22

Instrument :
MSVOA_U
ClientSampleId :
VSTD20058

Tgt Ion:106 Resp: 434370
Ion Ratio Lower Upper
106 100
91 225.3 151.4 281.2

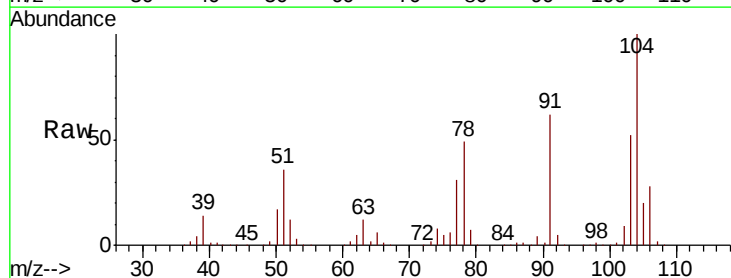


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

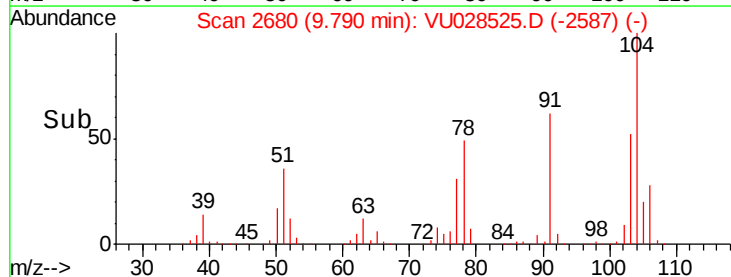
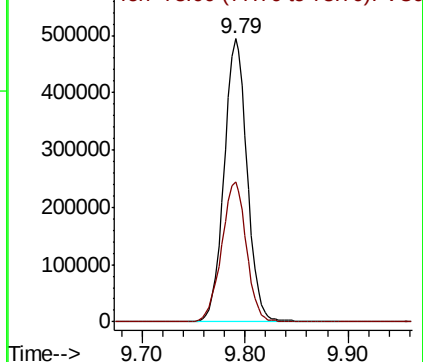


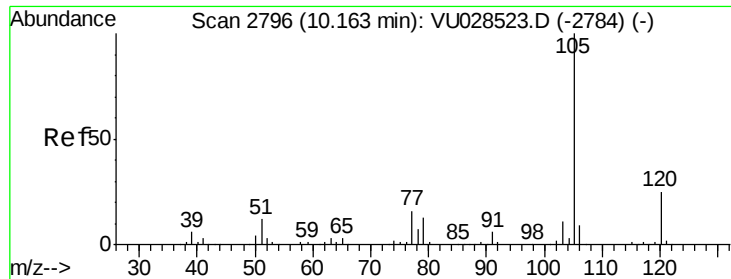
#55
Styrene
Concen: 219.087 ug/L
RT: 9.79 min Scan# 2680
Delta R.T. -0.00 min
Lab File: VU028525.D
Acq: 07 Dec 2018 11:22

Tgt Ion:104 Resp: 765960
Ion Ratio Lower Upper
104 100
78 49.3 34.1 63.3



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





#56

Isopropylbenzene

Concen: 212.813 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

Instrument :

MSVOA_U

ClientSampled :

VSTD20058

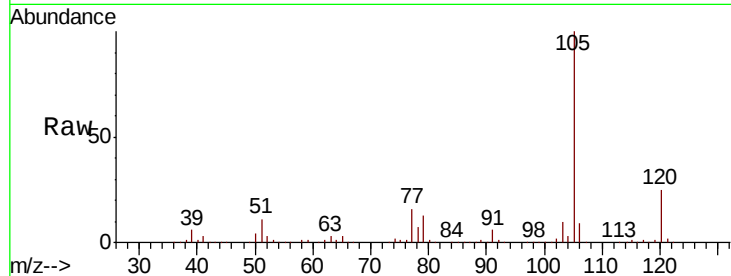
Tgt Ion:105 Resp: 1146300

Ion Ratio Lower Upper

105 100

120 25.5 20.2 30.2

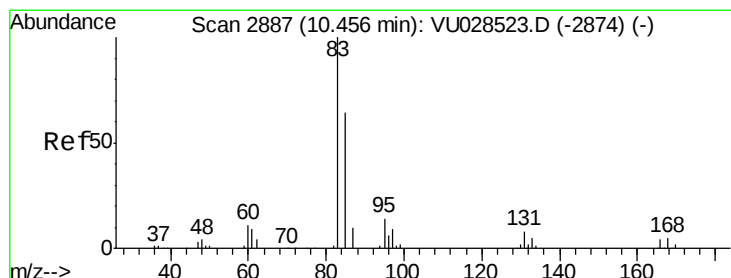
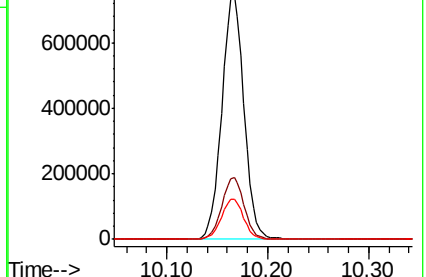
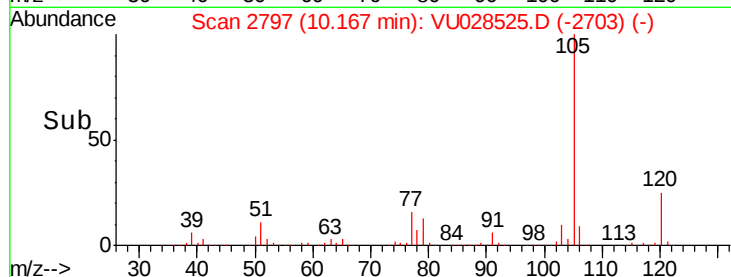
77 16.6 13.1 19.7



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: 215.256 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

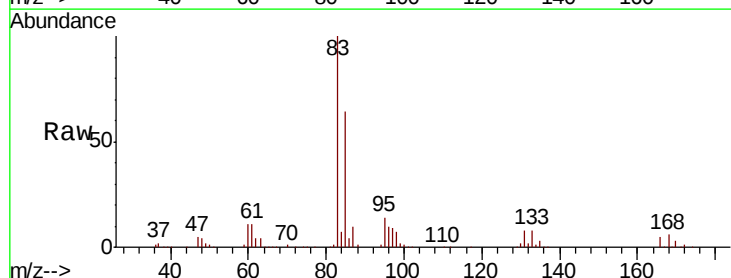
Tgt Ion: 83 Resp: 474240

Ion Ratio Lower Upper

83 100

85 63.9 45.1 83.7

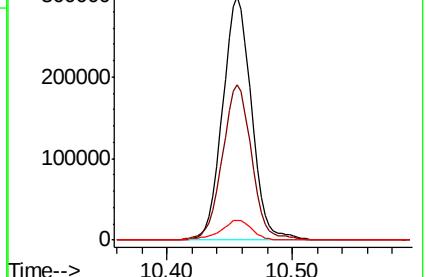
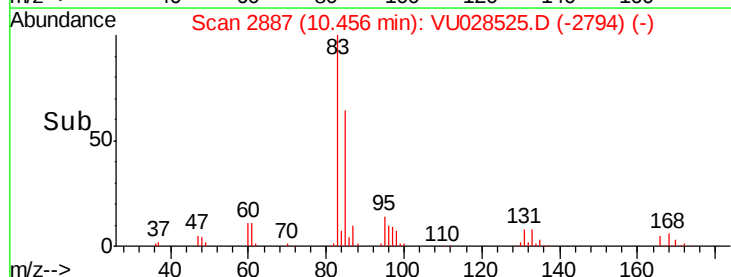
131 8.3 6.4 9.6

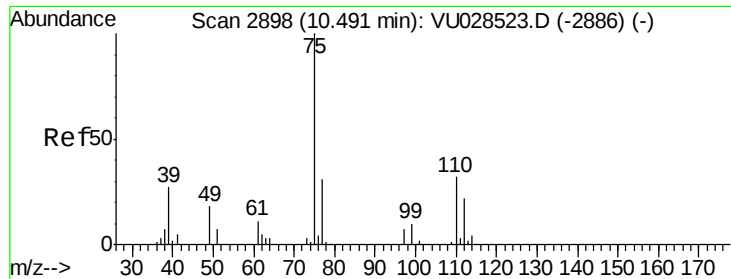


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 211.332 ug/L

RT: 10.49 min Scan# 2898

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

Instrument :

MSVOA_U

ClientSampleId :

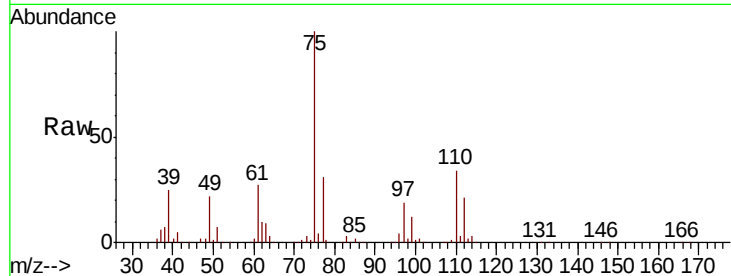
VSTD20058

Tgt Ion: 75 Resp: 366199

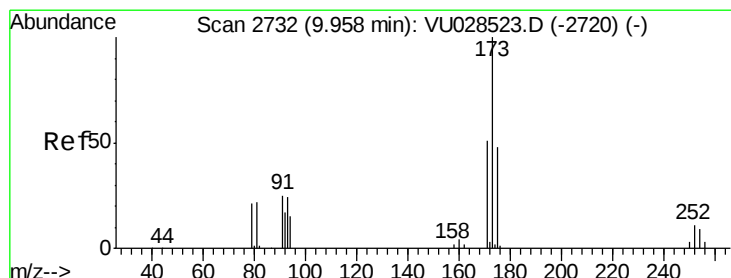
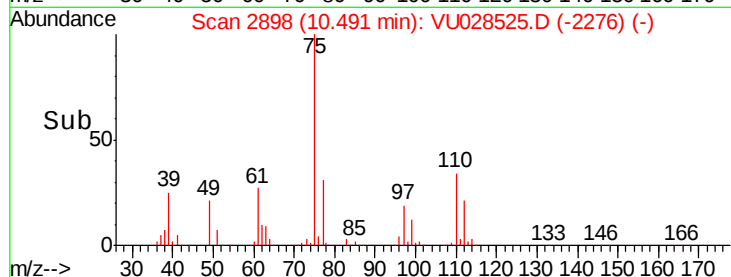
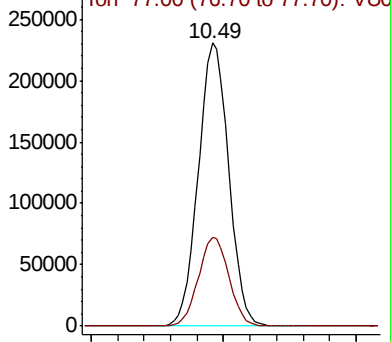
Ion Ratio Lower Upper

75 100

77 31.5 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU028523.D (-2886) (-)



#61

Bromoform

Concen: 208.145 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

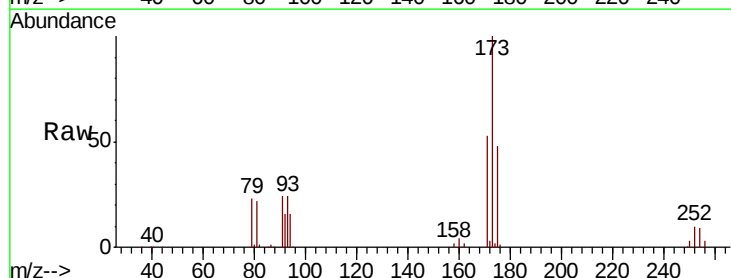
Tgt Ion: 173 Resp: 197862

Ion Ratio Lower Upper

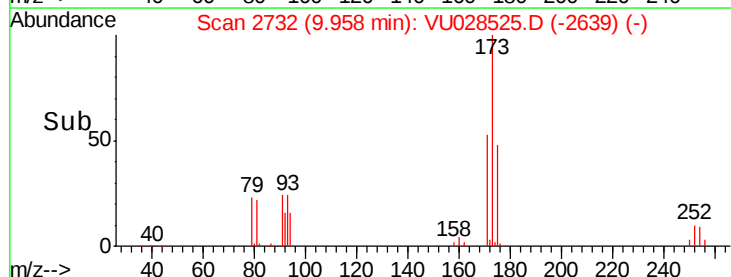
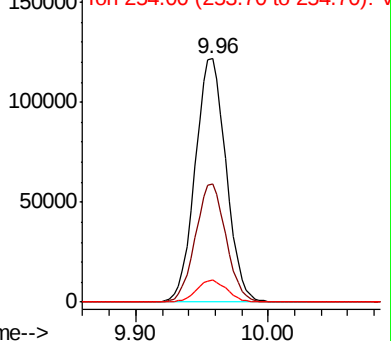
173 100

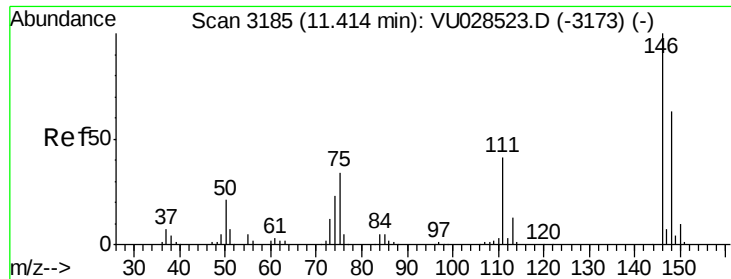
175 47.9 38.7 58.1

254 8.9 7.1 10.7



Abundance Ion 173.00 (172.70 to 173.70): VU028523.D (-2720) (-)





#62

1,3-Dichlorobenzene

Concen: 205.597 ug/L

RT: 11.41 min Scan# 3185

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD20058

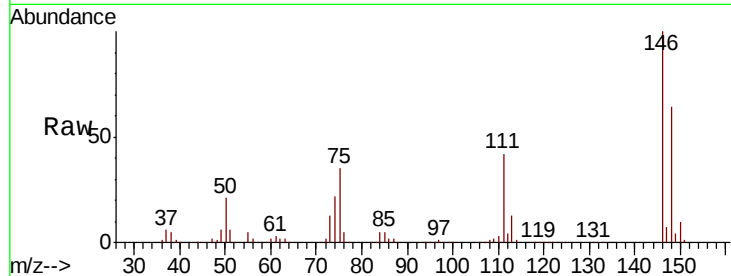
Tgt Ion:146 Resp: 518667

Ion Ratio Lower Upper

146 100

111 42.1 28.5 52.9

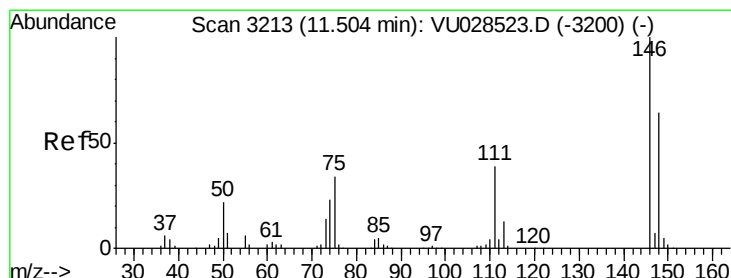
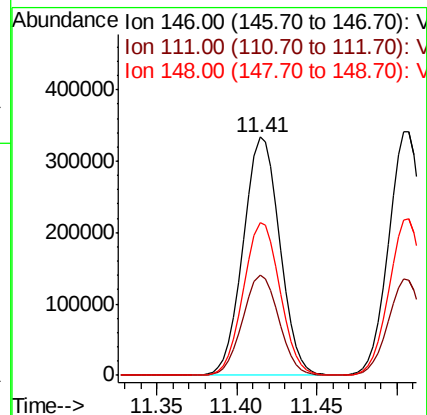
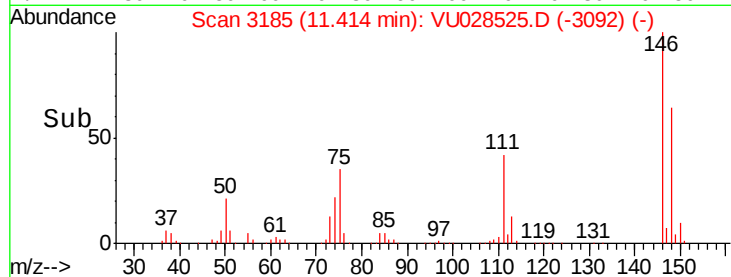
148 64.0 43.9 81.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 206.515 ug/L

RT: 11.50 min Scan# 3213

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

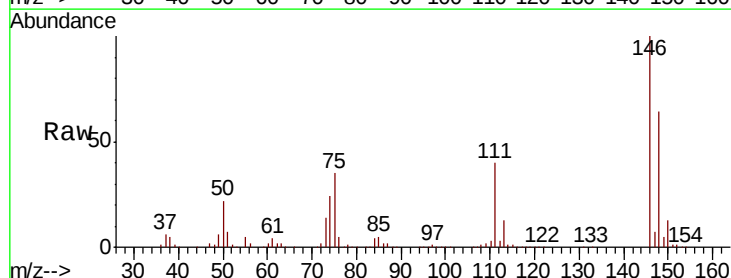
Tgt Ion:146 Resp: 525163

Ion Ratio Lower Upper

146 100

111 39.5 27.6 51.4

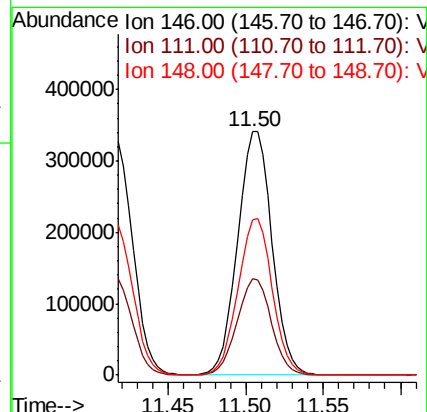
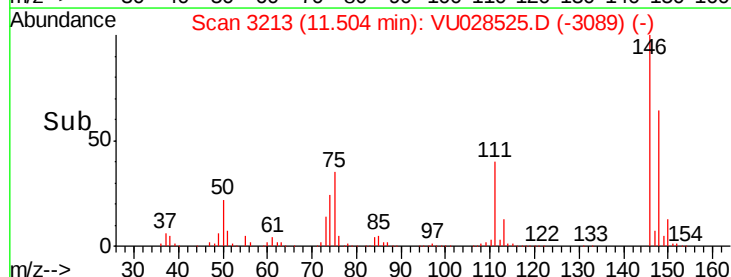
148 63.7 45.1 83.9

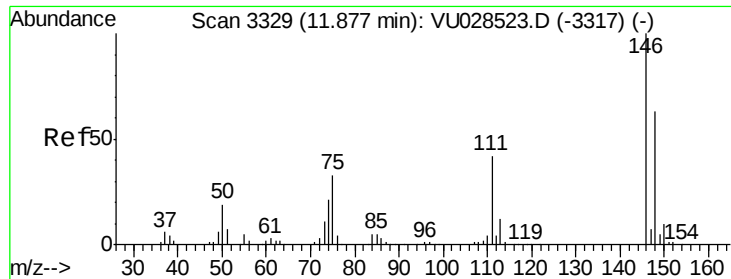


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 208.356 ug/L

RT: 11.88 min Scan# 3329

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD20058

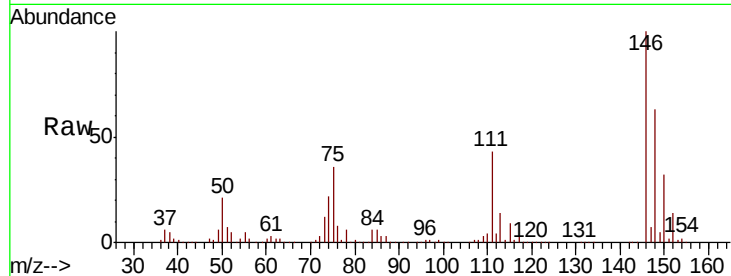
Tgt Ion:146 Resp: 522776

Ion Ratio Lower Upper

146 100

111 42.5 33.4 50.2

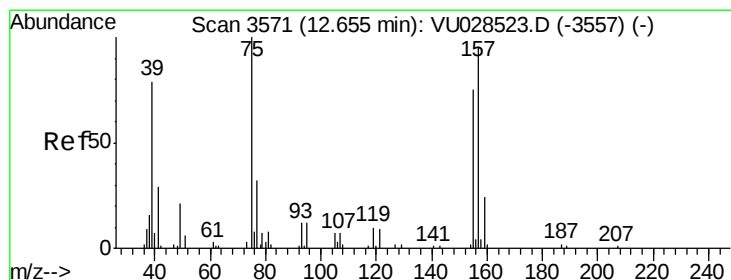
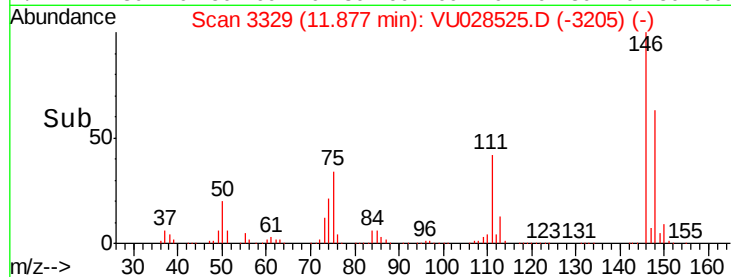
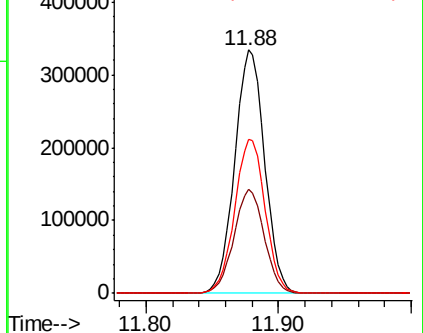
148 63.3 50.2 75.2



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: 211.436 ug/L

RT: 12.66 min Scan# 3571

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

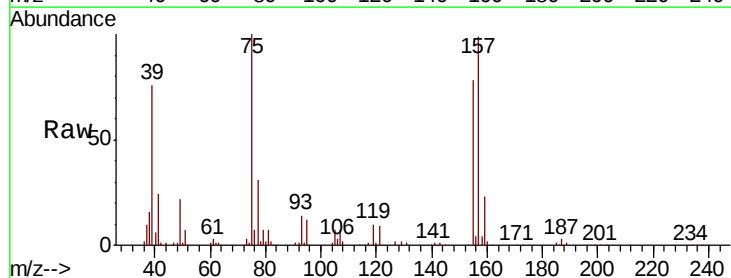
Tgt Ion: 75 Resp: 105126

Ion Ratio Lower Upper

75 100

155 78.1 59.9 89.9

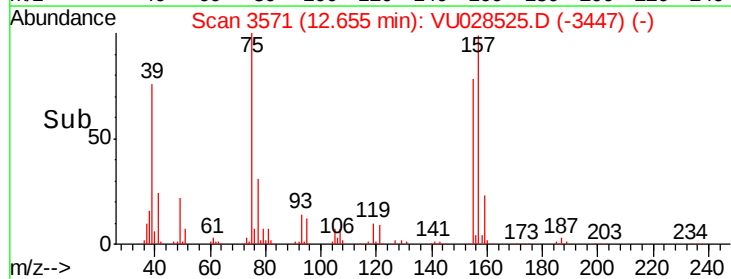
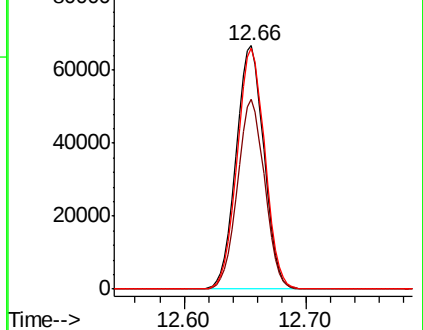
157 99.0 75.8 113.8

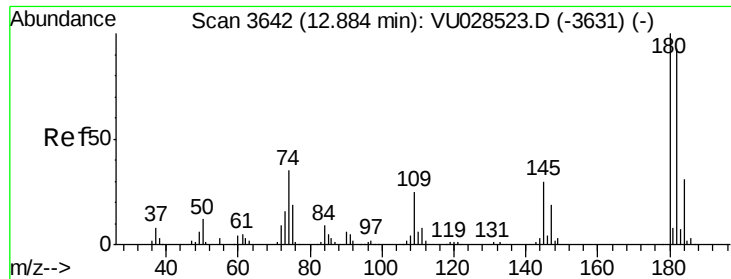


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

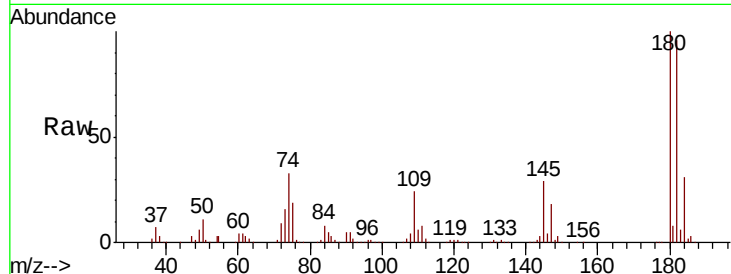




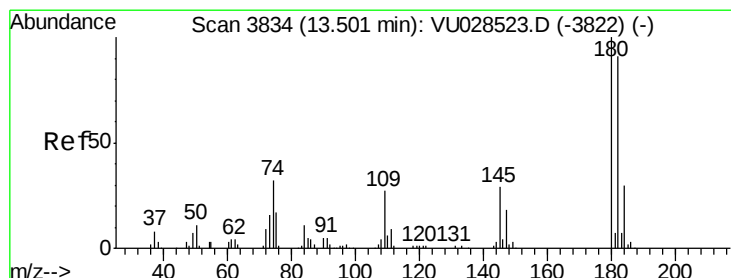
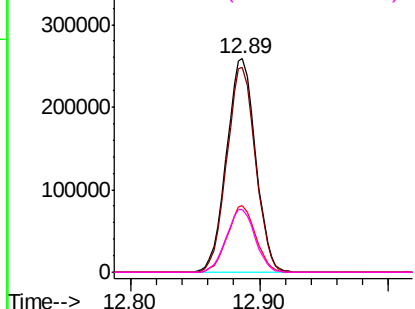
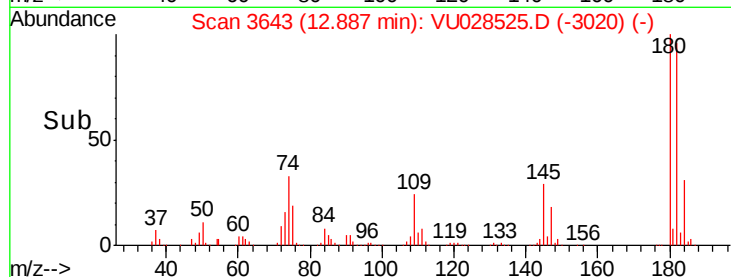
#67
 1,3,5-Trichlorobenzene
 Concen: 216.185 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU028525.D
 Acq: 07 Dec 2018 11:22

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20058

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.0	112.6
184	30.2	23.9	35.9
145	29.2	23.8	35.8

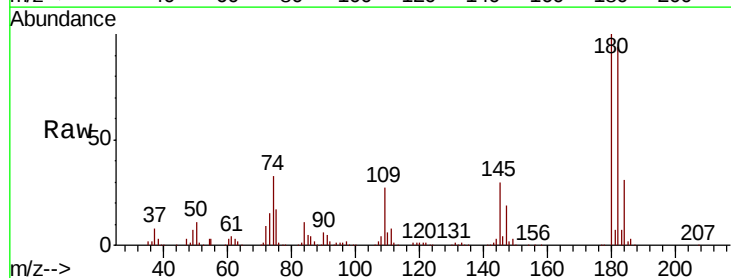


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

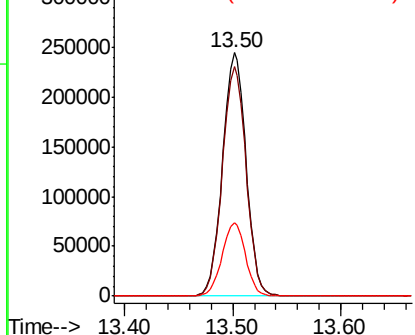
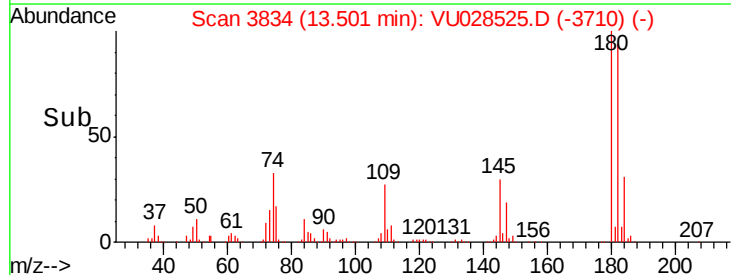


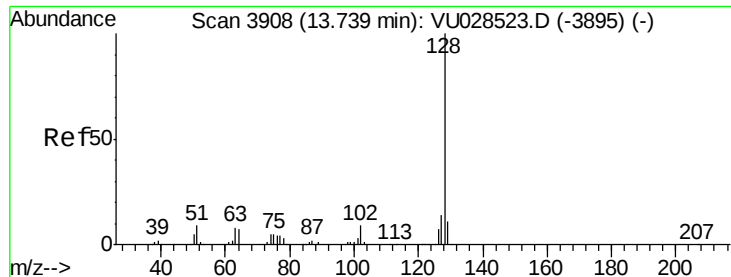
#68
 1,2,4-trichlorobenzene
 Concen: 213.976 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. -0.00 min
 Lab File: VU028525.D
 Acq: 07 Dec 2018 11:22

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	74.8	112.2
145	30.0	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





#69

Naphthalene

Concen: 214.543 ug/L

RT: 13.74 min Scan# 3908

Delta R.T. -0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD20058

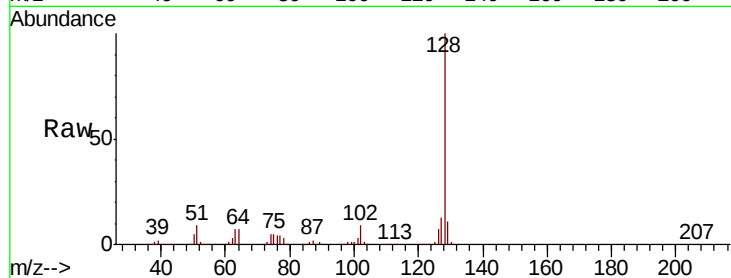
Tgt Ion:128 Resp: 1282056

Ion Ratio Lower Upper

128 100

127 13.1 10.7 16.1

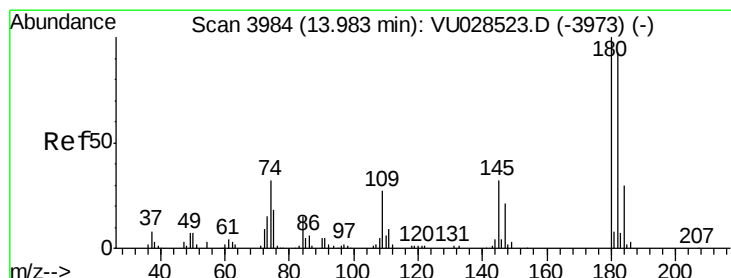
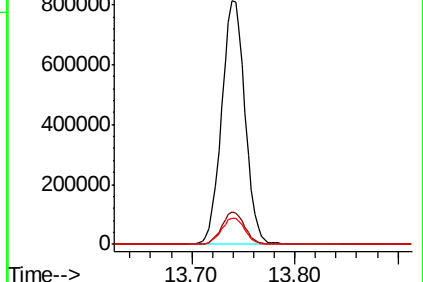
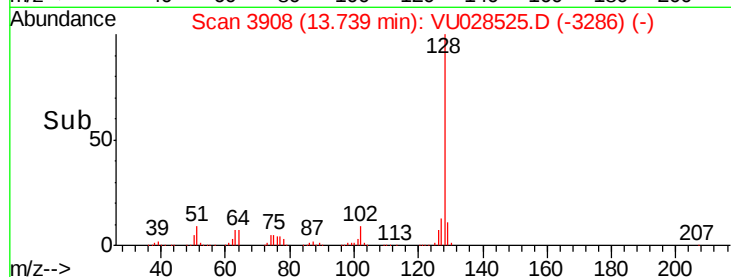
129 10.8 8.6 13.0



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: 211.209 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU028525.D

Acq: 07 Dec 2018 11:22

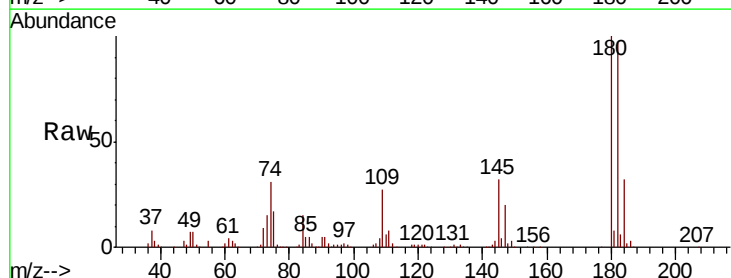
Tgt Ion:180 Resp: 367984

Ion Ratio Lower Upper

180 100

182 96.8 75.2 112.8

145 31.7 25.4 38.0



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

