

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080719\
 Data File : VU033626.D
 Acq On : 07 Aug 2019 18:49
 Operator : JC/SP
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Quant Time: Aug 08 03:18:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 08 03:14:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	302230	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	303699	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	163536	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	75618	39.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	78.30%
7) Chloroethane-d5	1.67	69	72665	33.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	67.50%#
11) 1,1-Dichloroethene-d2	2.26	63	164577	44.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.00%
21) 2-Butanone-d5	4.15	46	161474	103.20	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.20%
24) Chloroform-d	4.62	84	172583	46.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.88%
26) 1,2-Dichloroethane-d4	5.29	65	111049	47.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.78%
32) Benzene-d6	5.32	84	324858	43.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.48%
36) 1,2-Dichloropropane-d6	6.31	67	110291	46.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	92.80%
41) Toluene-d8	7.55	98	300074	43.42	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.84%
43) trans-1,3-Dichloropropene-	7.83	79	53731	45.45	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.90%
47) 2-Hexanone-d5	8.30	63	113312	97.47	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.47%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	181987	50.03	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.06%
64) 1,2-Dichlorobenzene-d4	11.84	152	134695	45.86	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.72%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	137468	53.190	ug/L 99
3) Chloromethane	1.32	50	145599	51.981	ug/L 99
5) Vinyl chloride	1.40	62	155737	50.817	ug/L 98
6) Bromomethane	1.62	94	114378	46.722	ug/L 100
8) Chloroethane	1.69	64	96831	40.179	ug/L 99
9) Trichlorofluoromethane	1.87	101	210314	52.620	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	106976	52.698	ug/L 99
12) 1,1-Dichloroethene	2.27	96	100782	51.056	ug/L 96
13) Acetone	2.31	43	142091	91.170	ug/L 98
14) Carbon disulfide	2.46	76	307111	50.191	ug/L 100
15) Methyl Acetate	2.60	43	135392	53.204	ug/L 99
16) Methylene chloride	2.68	84	123244	53.515	ug/L 98
17) trans-1,2-Dichloroethene	2.97	96	106160	50.410	ug/L 98
18) Methyl tert-butyl Ether	2.98	73	337607	51.766	ug/L 99
19) 1,1-Dichloroethane	3.42	63	208082	52.494	ug/L 97
20) cis-1,2-Dichloroethene	4.20	96	120838	52.021	ug/L 98
22) 2-Butanone	4.24	43	198843	101.575	ug/L 98

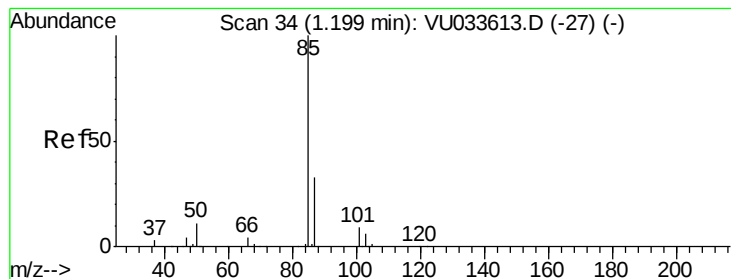
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080719\
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 Quant Title : VOC Analysis
 QLast Update : Thu Aug 08 03:14:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	64315	52.948	ug/L	98
25) Chloroform	4.65	83	221737	54.138	ug/L	100
27) 1,2-Dichloroethane	5.38	62	172617	53.944	ug/L	99
29) Cyclohexane	4.97	56	171689	49.638	ug/L	100
30) 1,1,1-Trichloroethane	4.89	97	182924	51.490	ug/L	100
31) Carbon tetrachloride	5.11	117	162387	52.073	ug/L	99
33) Benzene	5.37	78	470219	52.011	ug/L	100
34) Trichloroethene	6.16	95	117944	50.650	ug/L	99
35) Methylcyclohexane	6.40	83	183293	50.001	ug/L	97
37) 1,2-Dichloropropane	6.41	63	129392	52.403	ug/L	99
38) Bromodichloromethane	6.74	83	162728	52.286	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	186623	49.701	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	367234	103.930	ug/L	100
42) Toluene	7.62	91	509161	52.714	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	175192	51.851	ug/L	98
45) 1,1,2-Trichloroethane	8.05	97	119464	51.709	ug/L	97
46) Tetrachloroethene	8.21	164	98156	51.377	ug/L	98
48) 2-Hexanone	8.34	43	295596	104.755	ug/L	99
49) Dibromochloromethane	8.46	129	136656	52.631	ug/L	99
50) 1,2-Dibromoethane	8.57	107	132957	52.544	ug/L	99
51) Chlorobenzene	9.10	112	323566	51.303	ug/L	100
52) Ethylbenzene	9.23	91	548064	52.335	ug/L	99
53) m,p-Xylene	9.36	106	210586	52.804	ug/L	100
54) o-xylene	9.76	106	206520	52.867	ug/L	97
55) Styrene	9.77	104	361749	54.536	ug/L	99
56) Isopropylbenzene	10.15	105	533297	52.918	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	211670	51.238	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	169024	52.265	ug/L	100
61) Bromoform	9.94	173	102171	50.181	ug/L	100
62) 1,3-Dichlorobenzene	11.40	146	261541	50.975	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	264336	50.430	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	264853	51.757	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	49575	51.406	ug/L	96
67) 1,3,5-Trichlorobenzene	12.87	180	197576	50.016	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	169491	50.298	ug/L	99
69) Naphthalene	13.73	128	521402	53.242	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	184571	51.490	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 53.190 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

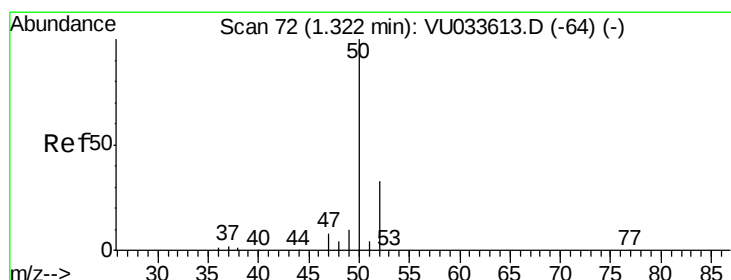
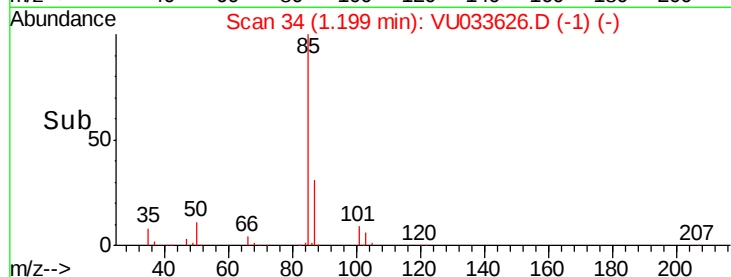
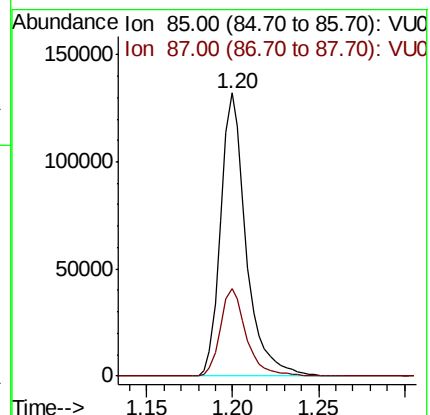
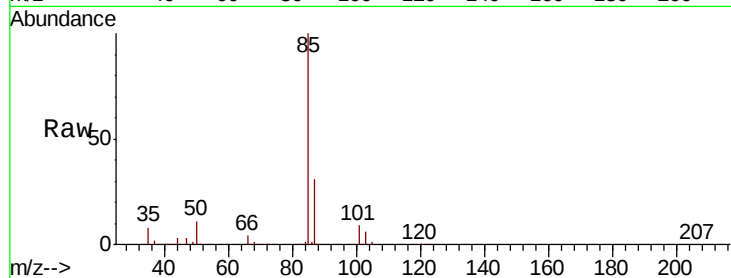
VSTD05052

Tgt Ion: 85 Resp: 137468

Ion Ratio Lower Upper

85 100

87 31.4 25.7 38.5



#3

Chloromethane

Concen: 51.981 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU033626.D

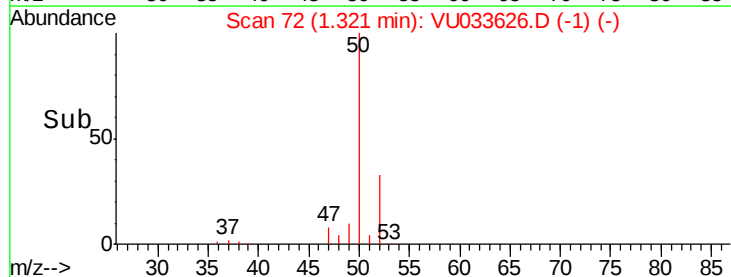
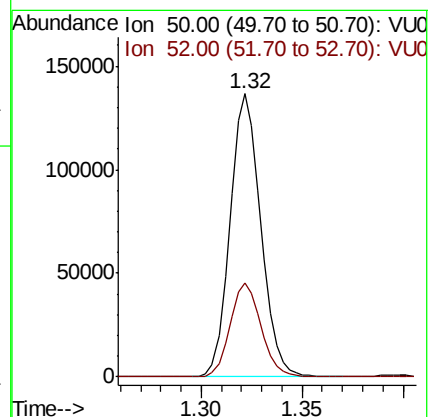
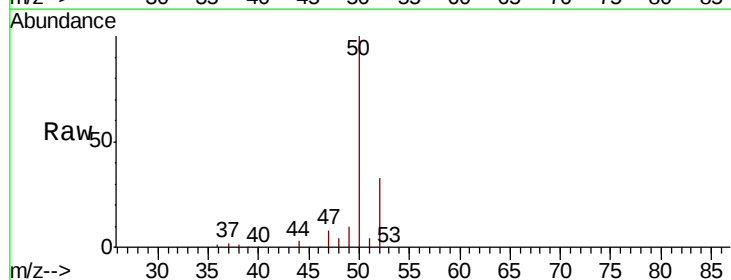
Acq: 07 Aug 2019 18:49

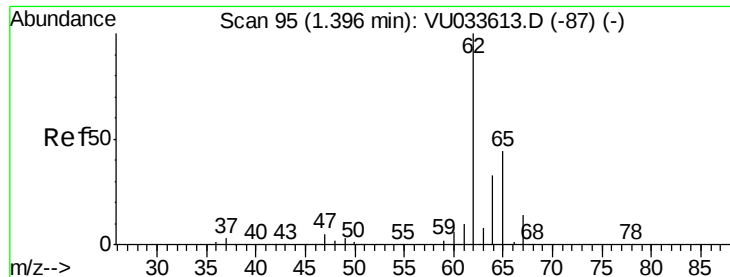
Tgt Ion: 50 Resp: 145599

Ion Ratio Lower Upper

50 100

52 33.2 23.6 43.8





#5

Vinyl chloride

Concen: 50.817 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

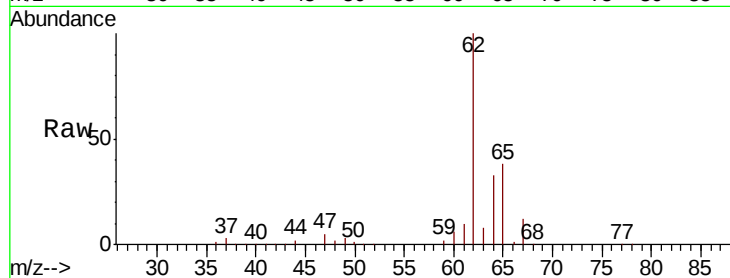
VSTD05052

Tgt Ion: 62 Resp: 155737

Ion Ratio Lower Upper

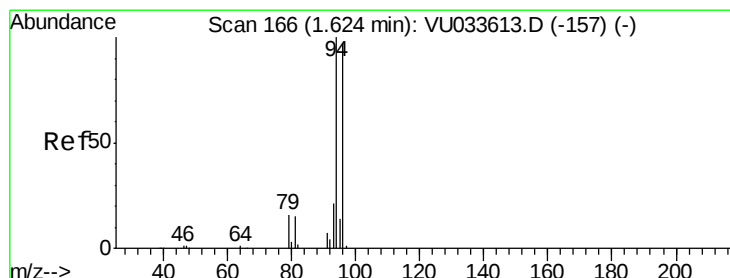
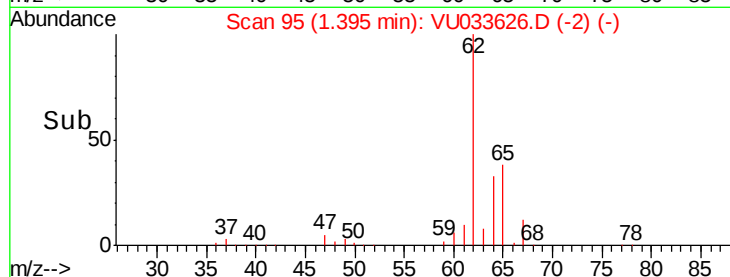
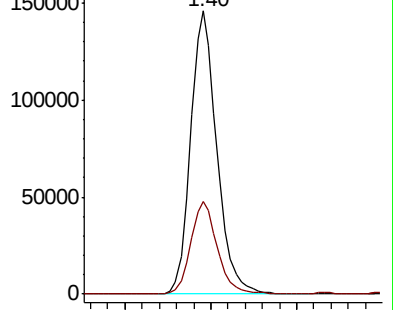
62 100

64 32.9 23.8 44.2



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 46.722 ug/L

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU033626.D

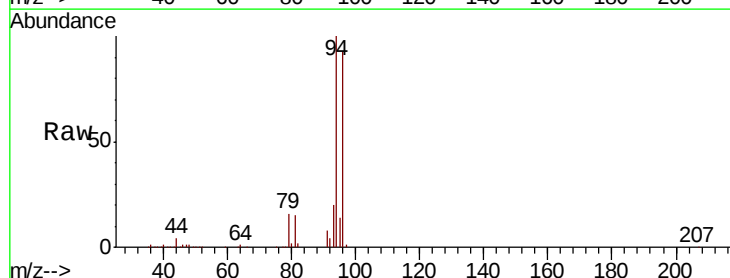
Acq: 07 Aug 2019 18:49

Tgt Ion: 94 Resp: 114378

Ion Ratio Lower Upper

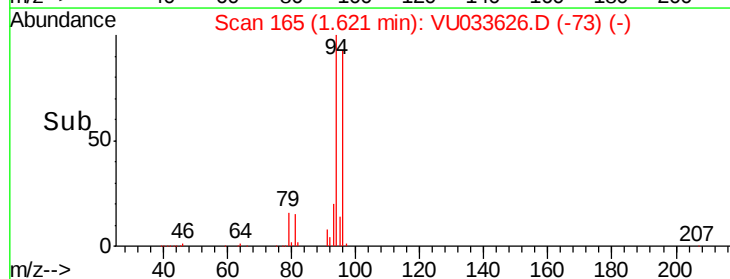
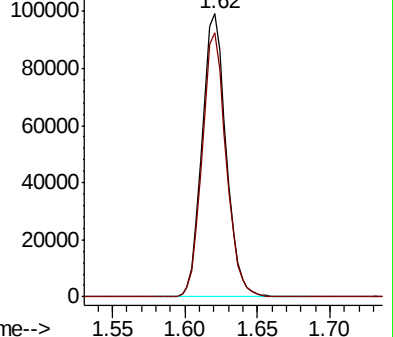
94 100

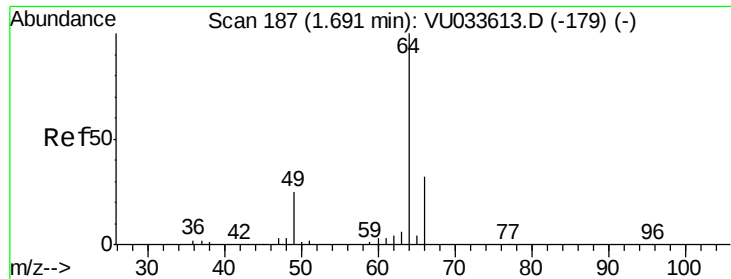
96 93.2 65.3 121.3



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

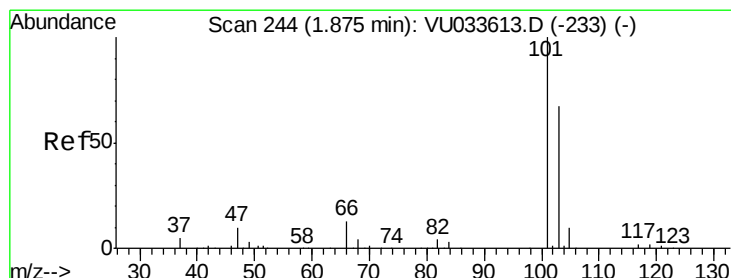
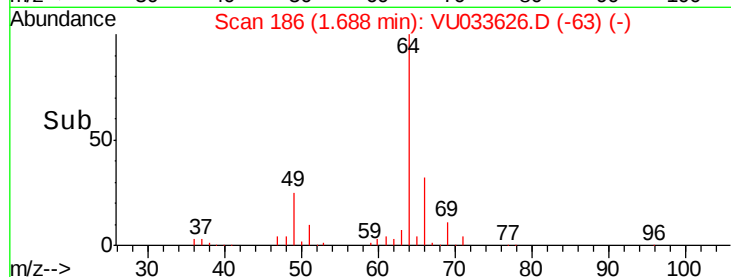
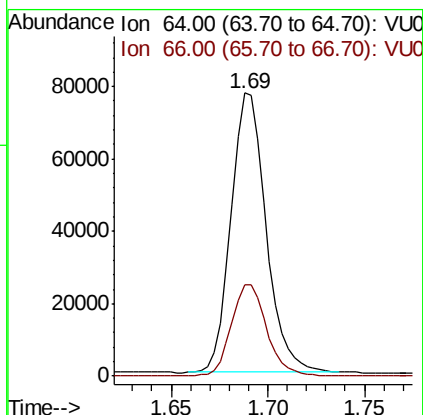
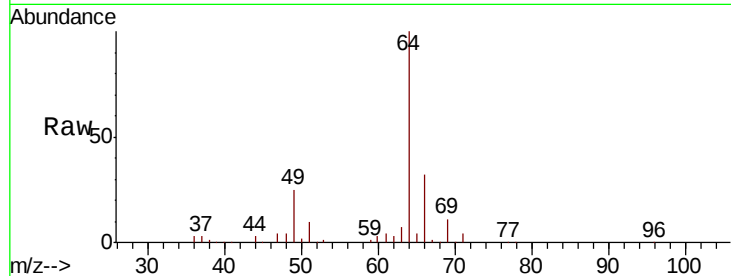




#8
Chloroethane
Concen: 40.179 ug/L
RT: 1.69 min Scan# 186
Delta R.T. -0.00 min
Lab File: VU033626.D
Acq: 07 Aug 2019 18:49

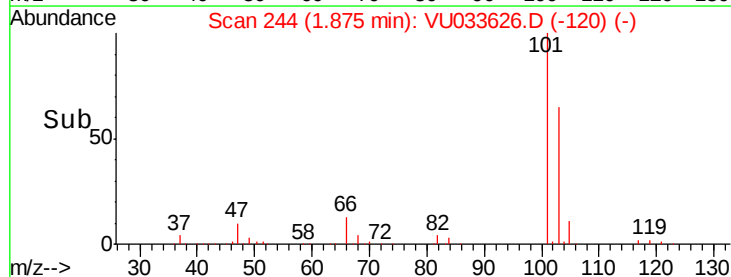
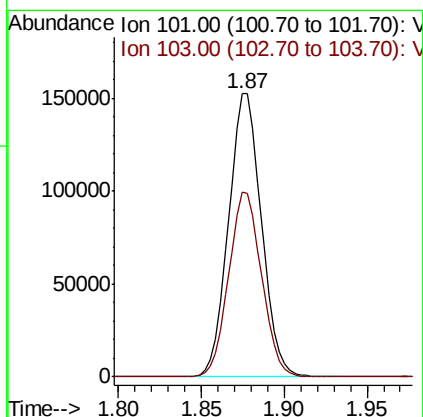
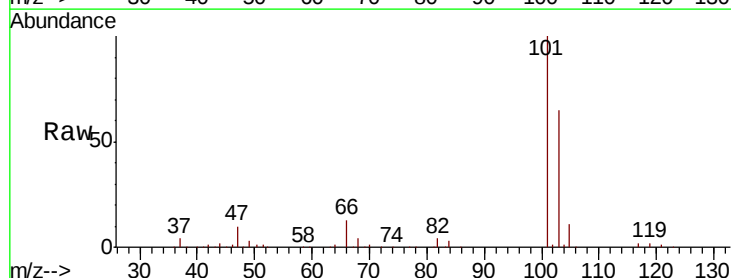
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

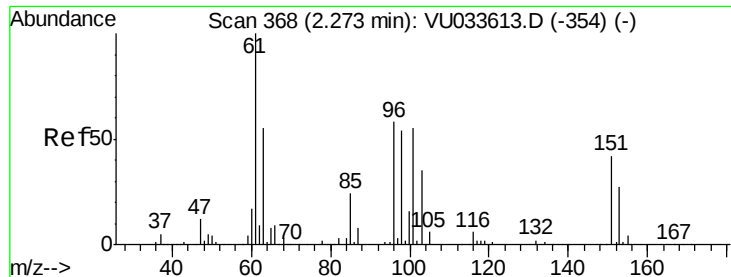
Tgt Ion: 64 Resp: 96831
Ion Ratio Lower Upper
64 100
66 32.1 22.9 42.5



#9
Trichlorofluoromethane
Concen: 52.620 ug/L
RT: 1.87 min Scan# 244
Delta R.T. -0.00 min
Lab File: VU033626.D
Acq: 07 Aug 2019 18:49

Tgt Ion: 101 Resp: 210314
Ion Ratio Lower Upper
101 100
103 65.2 51.0 76.4





#10

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

Concen: 52.698 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

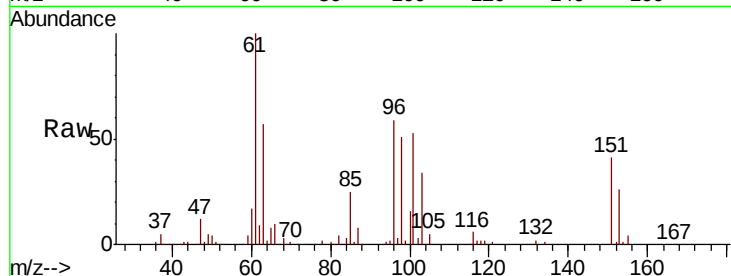
Tgt Ion: 101 Resp: 106976

Ion Ratio Lower Upper

101 100

85 43.8 34.3 51.5

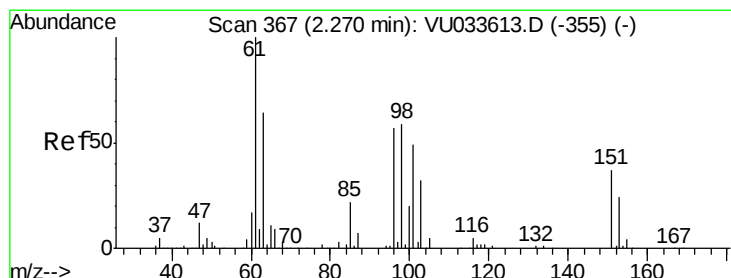
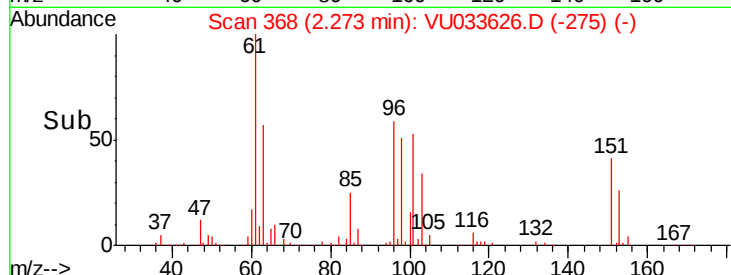
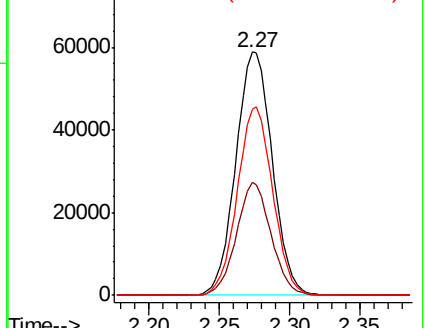
151 75.0 60.2 90.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 51.056 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

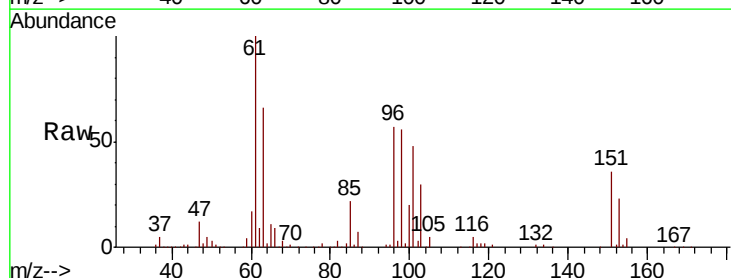
Tgt Ion: 96 Resp: 100782

Ion Ratio Lower Upper

96 100

61 174.9 119.1 221.3

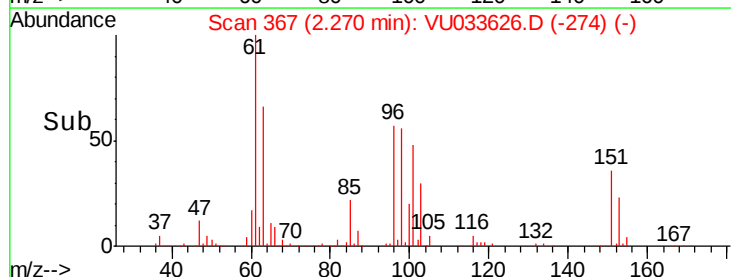
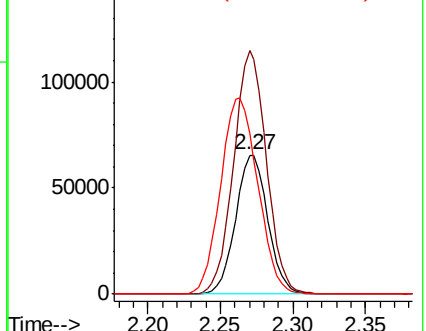
63 115.3 77.9 144.7

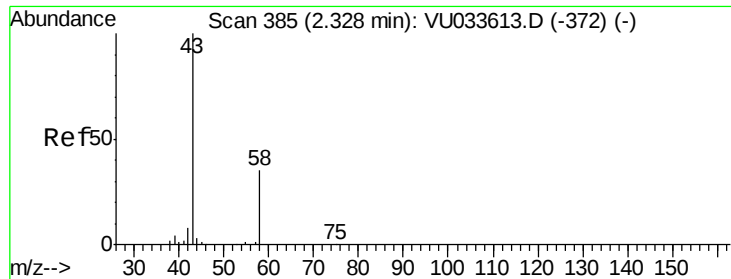


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 91.170 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.02 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

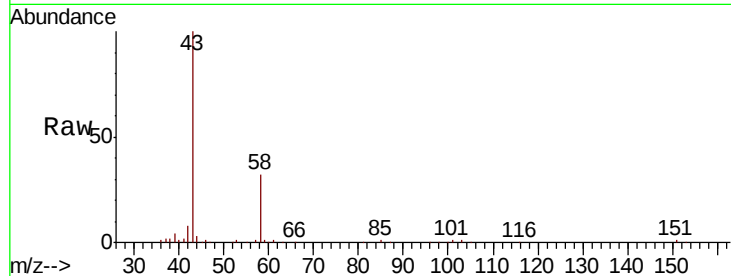
VSTD05052

Tgt Ion: 43 Resp: 142091

Ion Ratio Lower Upper

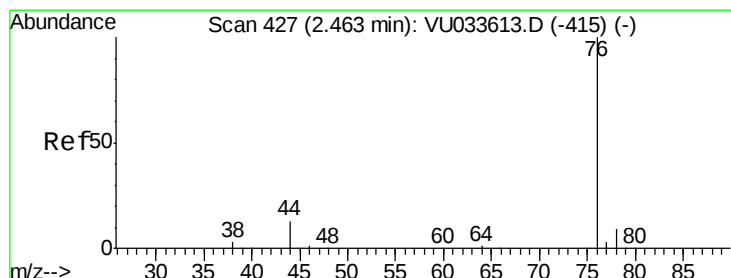
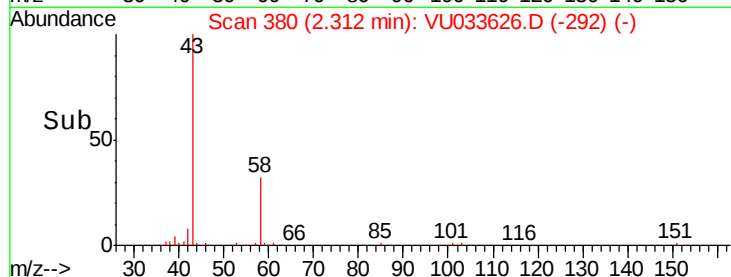
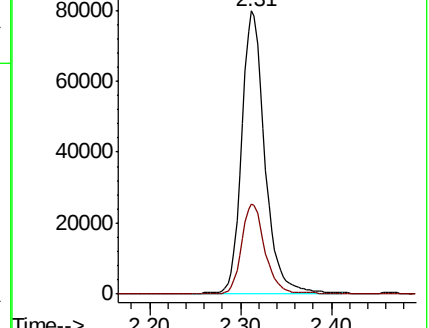
43 100

58 31.8 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VU033626.D (-372) (-)

Ion 58.00 (57.70 to 58.70): VU033626.D (-372) (-)



#14

Carbon disulfide

Concen: 50.191 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033626.D

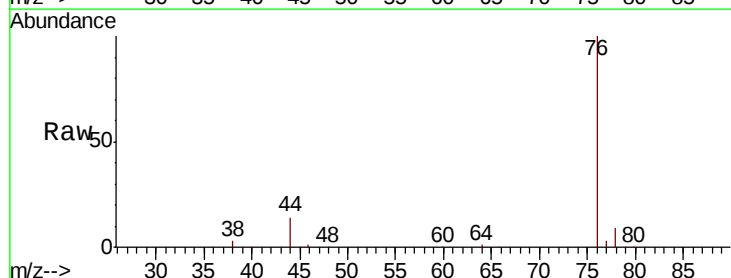
Acq: 07 Aug 2019 18:49

Tgt Ion: 76 Resp: 307111

Ion Ratio Lower Upper

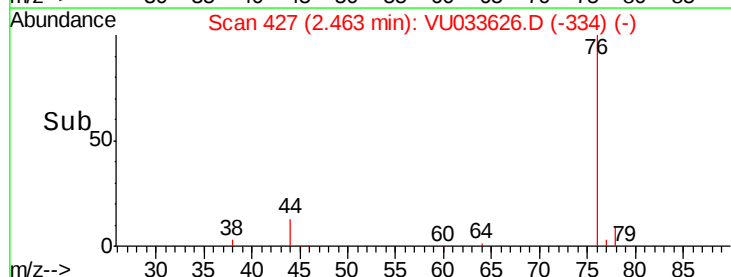
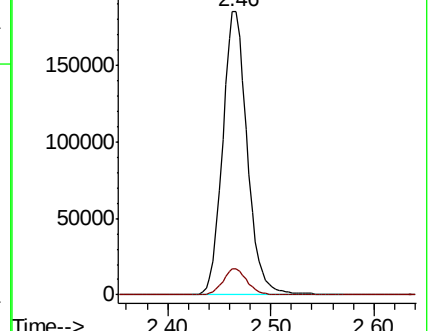
76 100

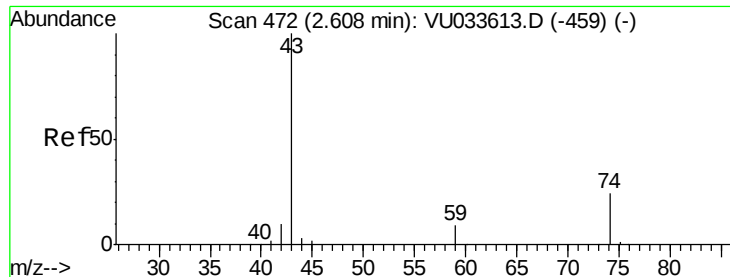
78 9.2 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU033626.D (-334) (-)

Ion 78.00 (77.70 to 78.70): VU033626.D (-334) (-)





#15

Methyl Acetate

Concen: 53.204 ug/L

RT: 2.60 min Scan# 470

Delta R.T. -0.01 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

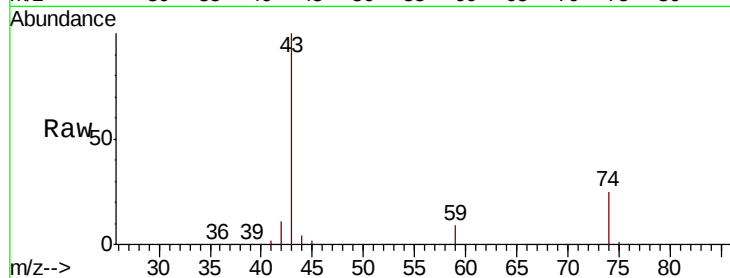
VSTD05052

Tgt Ion: 43 Resp: 135392

Ion Ratio Lower Upper

43 100

74 24.3 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VU033626.D (-379) (-)

Ion 74.00 (73.70 to 74.70): VU033626.D (-379) (-)

2.60

80000

60000

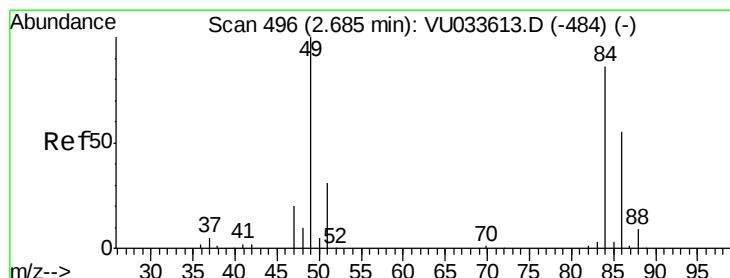
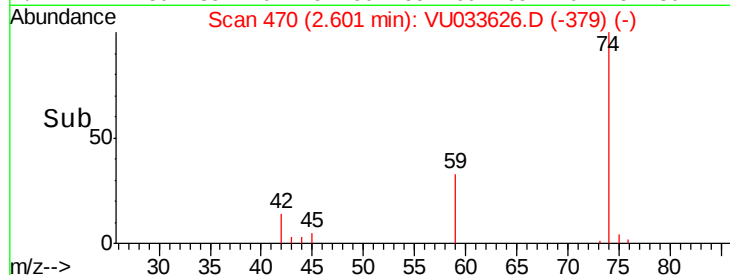
40000

20000

0

Time-->

2.50 2.60 2.70



#16

Methylene chloride

Concen: 53.515 ug/L

RT: 2.68 min Scan# 496

Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

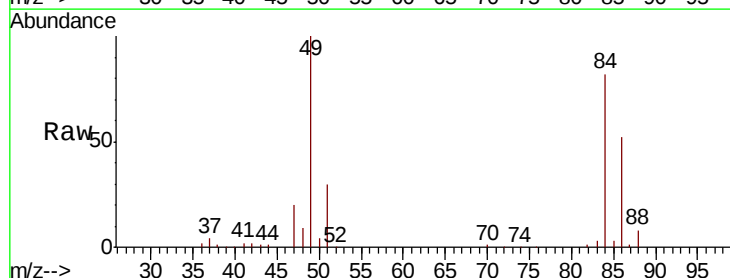
Tgt Ion: 84 Resp: 123244

Ion Ratio Lower Upper

84 100

86 63.1 44.9 83.5

49 121.5 83.4 155.0



Abundance Ion 84.00 (83.70 to 84.70): VU033626.D (-403) (-)

Ion 86.00 (85.70 to 86.70): VU033626.D (-403) (-)

Ion 49.00 (48.70 to 49.70): VU033626.D (-403) (-)

2.68

100000

80000

60000

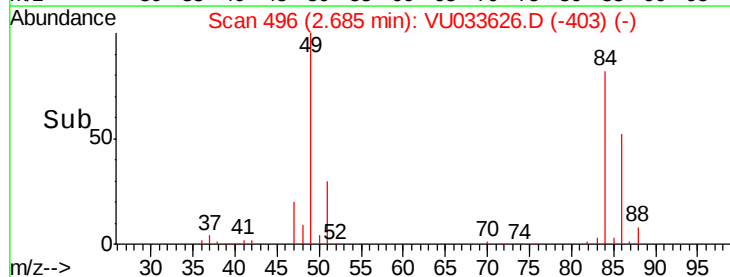
40000

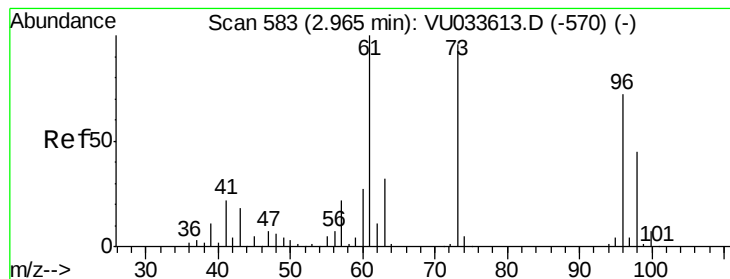
20000

0

Time-->

2.60 2.70 2.80





#17

trans-1,2-Dichloroethene

Concen: 50.410 ug/L

RT: 2.97 min Scan# 584

Delta R.T. 0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

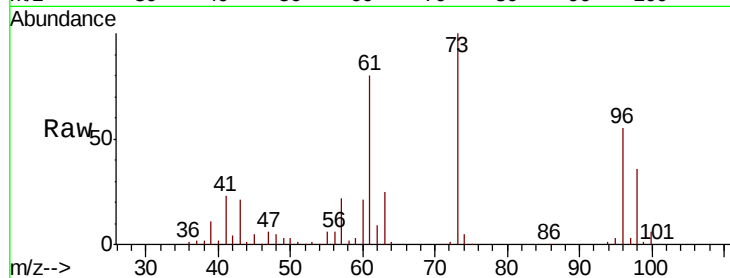
Tgt Ion: 96 Resp: 106160

Ion Ratio Lower Upper

96 100

61 144.5 98.8 183.4

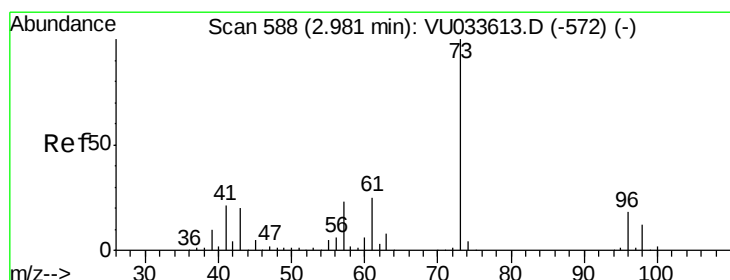
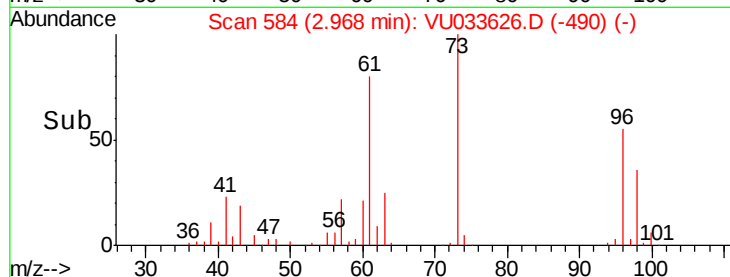
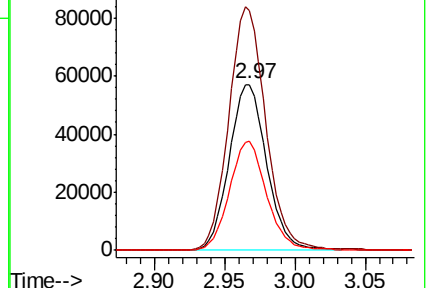
98 65.6 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VU033613.D (-570) (-)

Ion 61.00 (60.70 to 61.70): VU033613.D (-570) (-)

Ion 98.00 (97.70 to 98.70): VU033613.D (-570) (-)



#18

Methyl tert-butyl Ether

Concen: 51.766 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

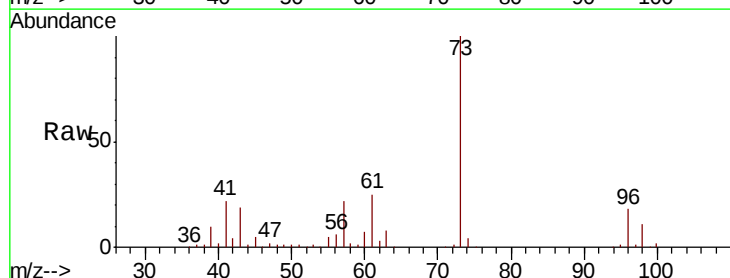
Tgt Ion: 73 Resp: 337607

Ion Ratio Lower Upper

73 100

43 19.5 15.8 23.6

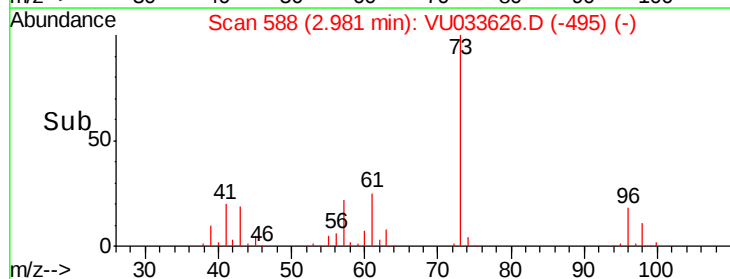
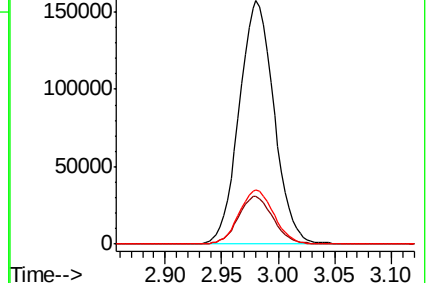
57 22.3 17.5 26.3

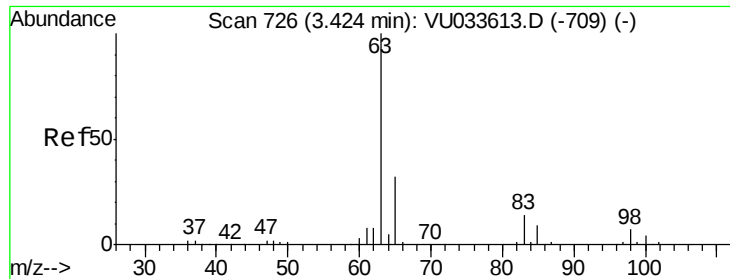


Abundance Ion 73.00 (72.70 to 73.70): VU033613.D (-572) (-)

Ion 43.00 (42.70 to 43.70): VU033613.D (-572) (-)

Ion 57.00 (56.70 to 57.70): VU033613.D (-572) (-)





#19

1,1-Dichloroethane

Concen: 52.494 ug/L

RT: 3.42 min Scan# 726

Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

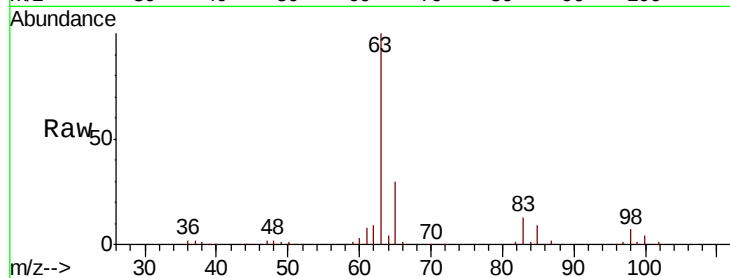
Tgt Ion: 63 Resp: 208082

Ion Ratio Lower Upper

63 100

65 30.4 22.9 42.5

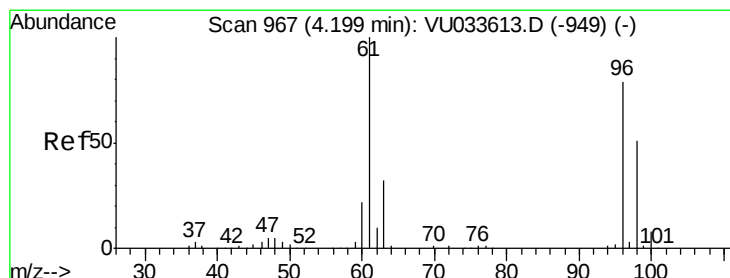
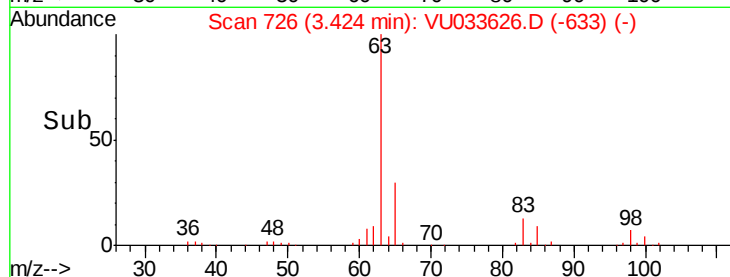
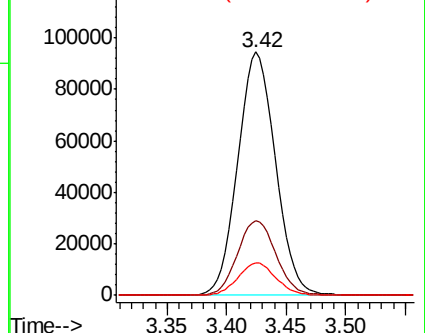
83 13.3 9.8 18.2



Abundance Ion 63.00 (62.70 to 63.70): VU033613.D (-709) (-)

Ion 65.00 (64.70 to 65.70): VU033613.D (-709) (-)

Ion 83.00 (82.70 to 83.70): VU033613.D (-709) (-)



#20

cis-1,2-Dichloroethene

Concen: 52.021 ug/L

RT: 4.20 min Scan# 968

Delta R.T. 0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

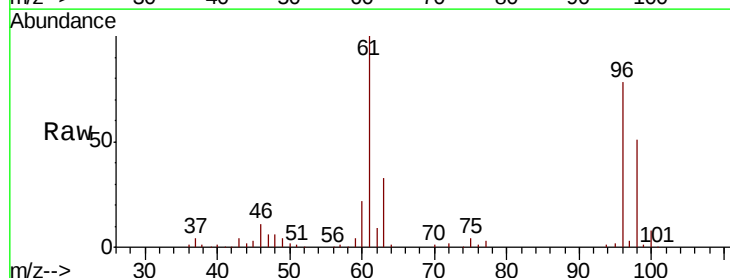
Tgt Ion: 96 Resp: 120838

Ion Ratio Lower Upper

96 100

61 128.2 88.2 163.8

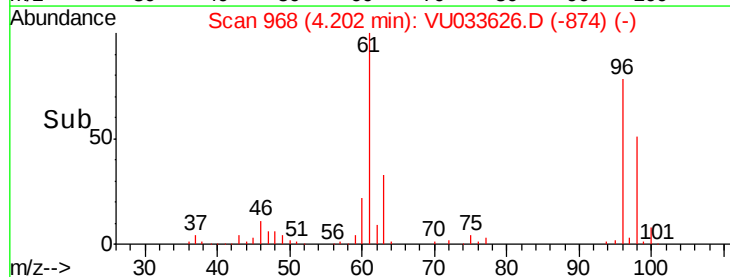
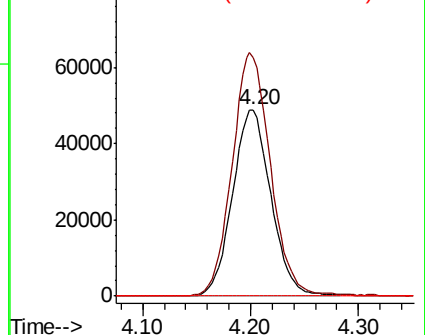
68 0.0 0.0 0.0

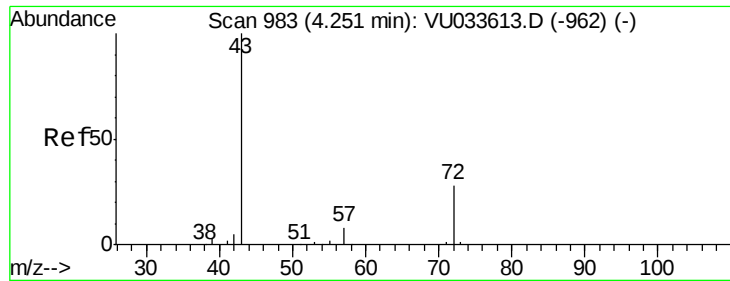


Abundance Ion 96.00 (95.70 to 96.70): VU033613.D (-949) (-)

Ion 61.00 (60.70 to 61.70): VU033613.D (-949) (-)

Ion 68.00 (67.70 to 68.70): VU033613.D (-949) (-)





#22

2-Butanone

Concen: 101.575 ug/L

RT: 4.24 min Scan# 979

Delta R.T. -0.01 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

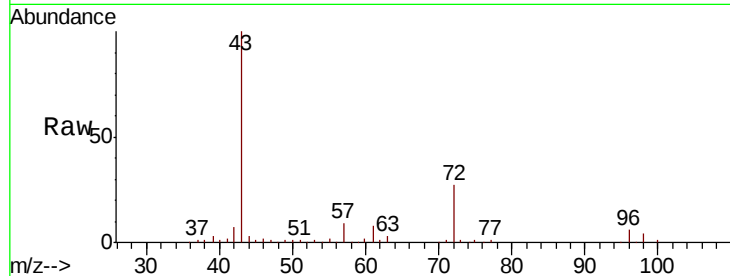
VSTD05052

Tgt Ion: 43 Resp: 198843

Ion Ratio Lower Upper

43 100

72 28.5 13.8 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU033613.D (-962) (-)

Ion 72.00 (71.70 to 72.70): VU033613.D (-962) (-)

4.24

80000

60000

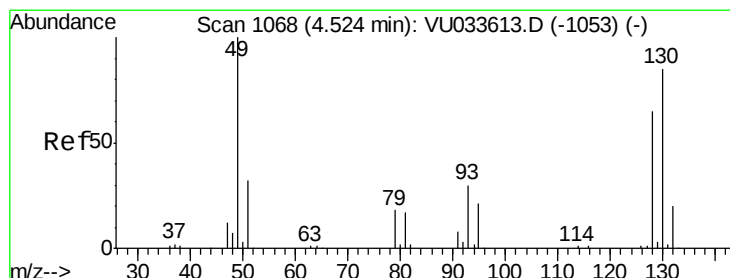
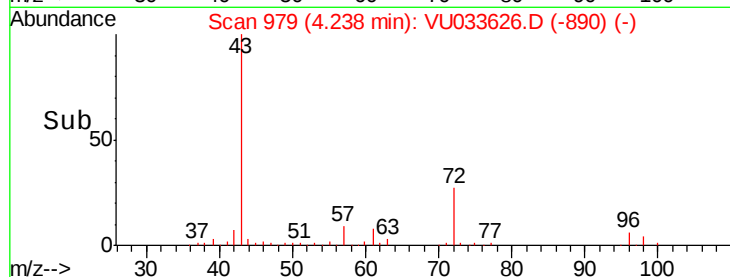
40000

20000

0

4.20 4.30

Time-->



#23

Bromochloromethane

Concen: 52.948 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

Tgt Ion: 128 Resp: 64315

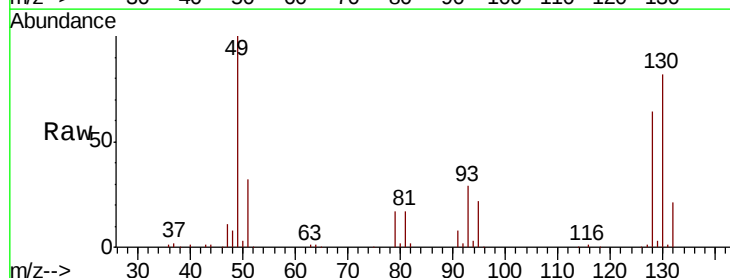
Ion Ratio Lower Upper

128 100

49 156.8 108.1 200.9

130 128.5 89.0 165.4

51 50.4 38.8 58.2



Abundance Ion 128.00 (127.70 to 128.70): VU033613.D (-1053) (-)

Ion 49.00 (48.70 to 49.70): VU033613.D (-1053) (-)

Ion 130.00 (129.70 to 130.70): VU033613.D (-1053) (-)

Ion 51.00 (50.70 to 51.70): VU033613.D (-1053) (-)

60000

50000

40000

30000

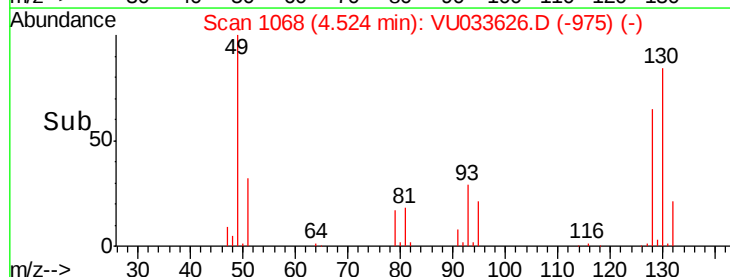
20000

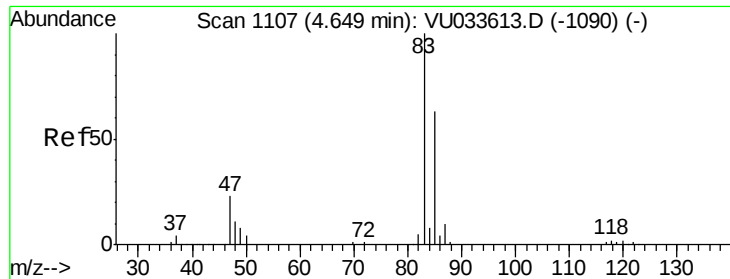
10000

0

4.50 4.52 4.60

Time-->

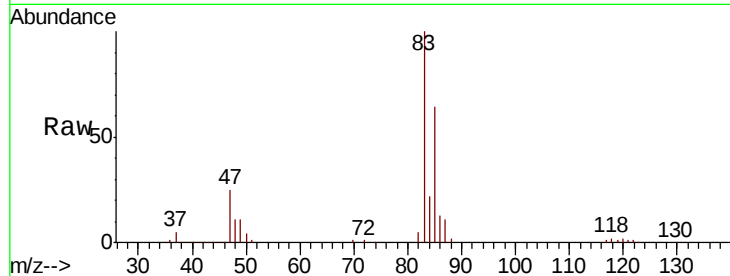




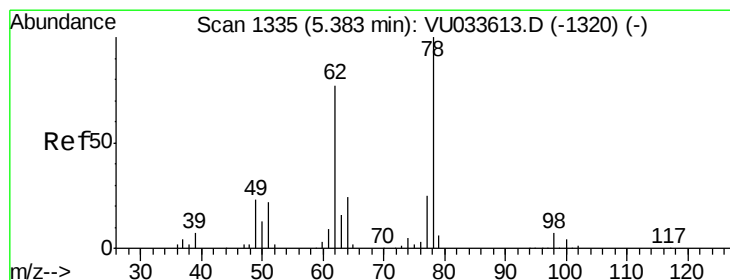
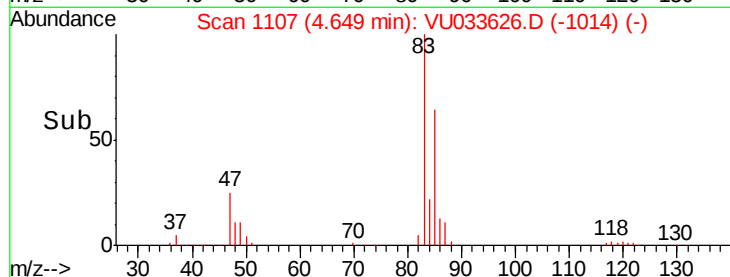
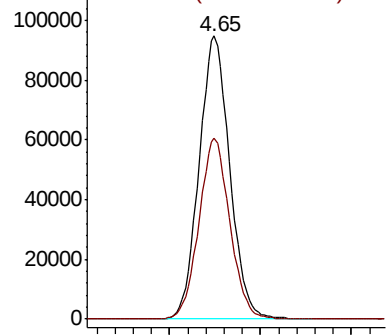
#25
Chloroform
Concen: 54.138 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VU033626.D
Acq: 07 Aug 2019 18:49

Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

Tgt Ion: 83 Resp: 221737
Ion Ratio Lower Upper
83 100
85 63.9 44.9 83.3

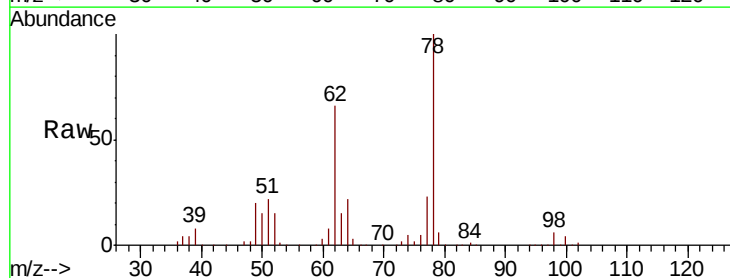


Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 85.00 (84.70 to 85.70): VU0

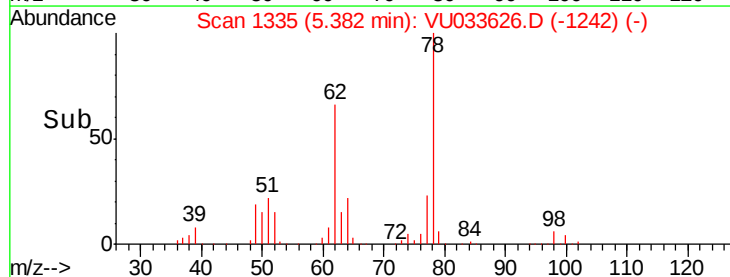
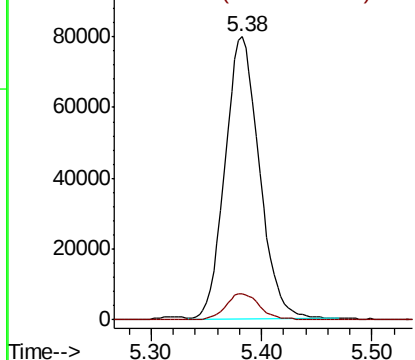


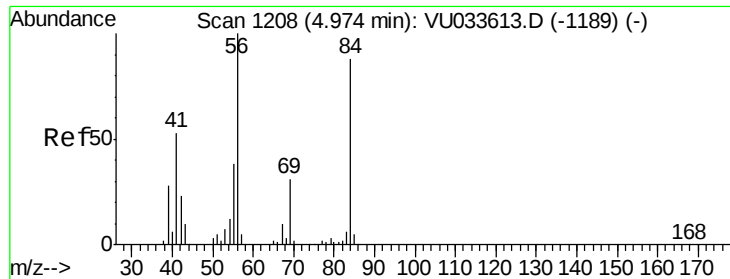
#27
1,2-Dichloroethane
Concen: 53.944 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU033626.D
Acq: 07 Aug 2019 18:49

Tgt Ion: 62 Resp: 172617
Ion Ratio Lower Upper
62 100
98 9.2 7.0 10.4



Abundance Ion 62.00 (61.70 to 62.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

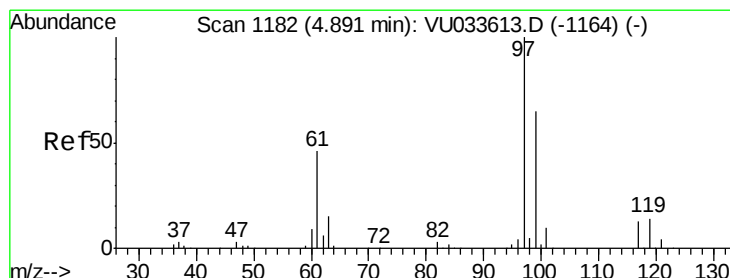
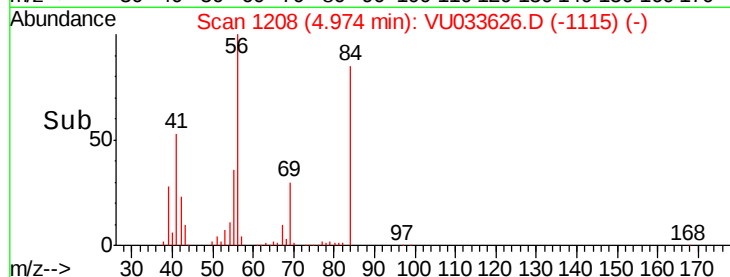
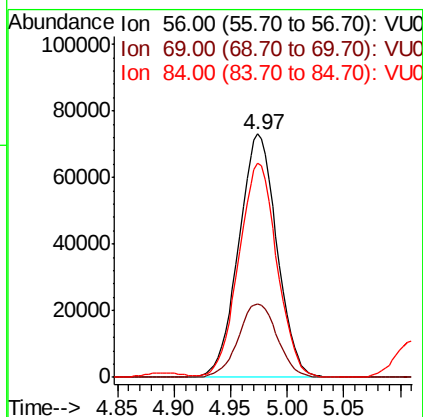
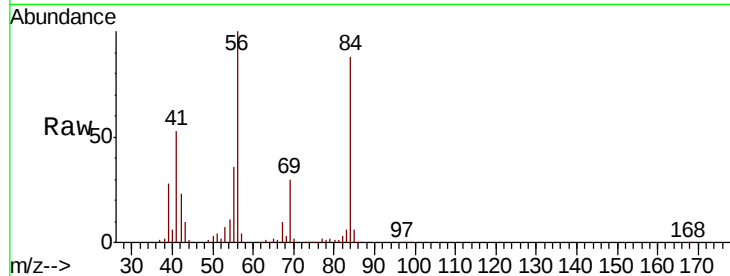




#29
Cyclohexane
Concen: 49.638 ug/L
RT: 4.97 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VU033626.D
Acq: 07 Aug 2019 18:49

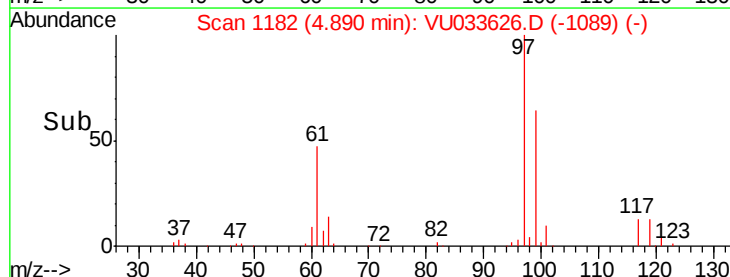
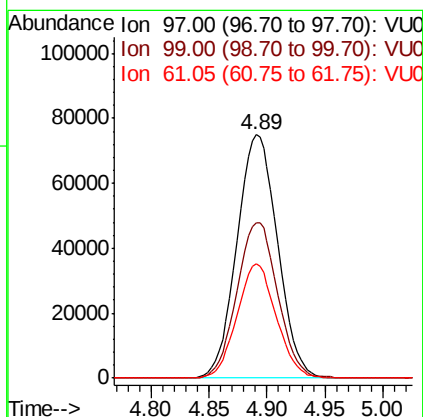
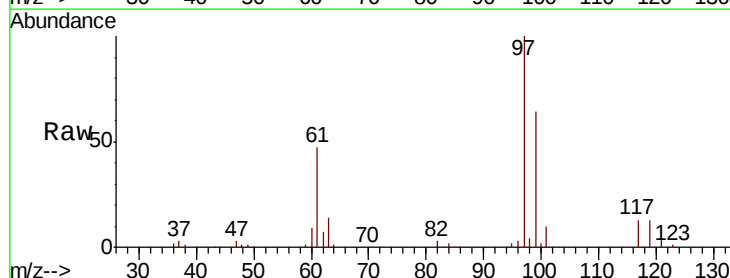
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

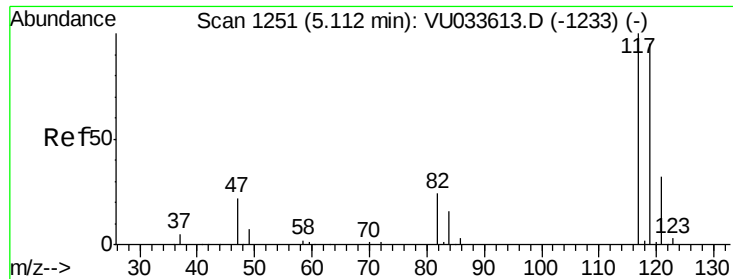
Tgt Ion: 56 Resp: 171689
Ion Ratio Lower Upper
56 100
69 30.9 24.7 37.1
84 87.7 69.8 104.8



#30
1,1,1-Trichloroethane
Concen: 51.490 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033626.D
Acq: 07 Aug 2019 18:49

Tgt Ion: 97 Resp: 182924
Ion Ratio Lower Upper
97 100
99 64.3 51.8 77.6
61 45.4 36.2 54.2





#31

Carbon tetrachloride

Concen: 52.073 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

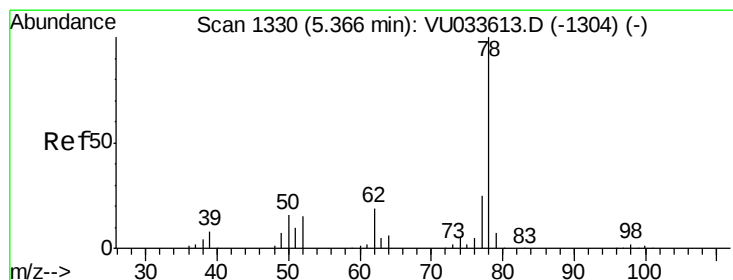
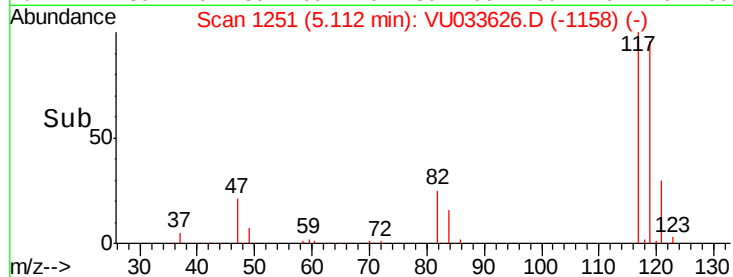
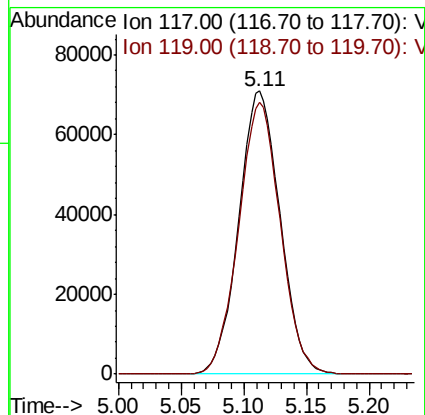
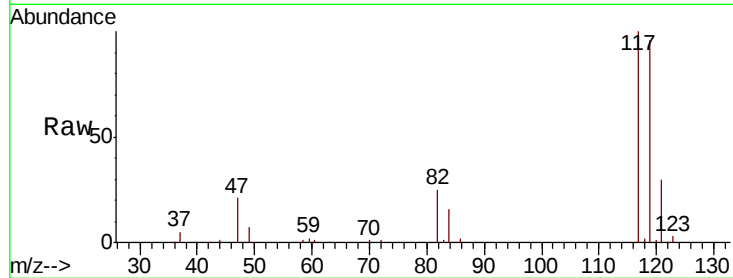
VSTD05052

Tgt Ion:117 Resp: 162387

Ion Ratio Lower Upper

117 100

119 96.7 76.9 115.3



#33

Benzene

Concen: 52.011 ug/L

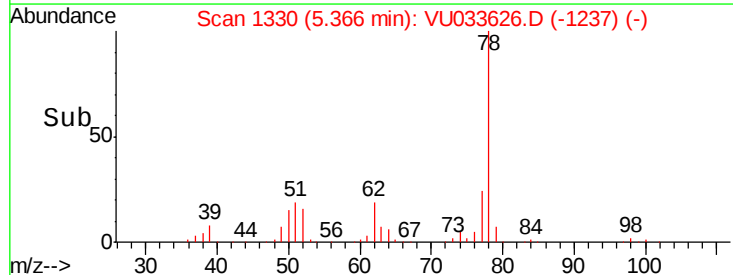
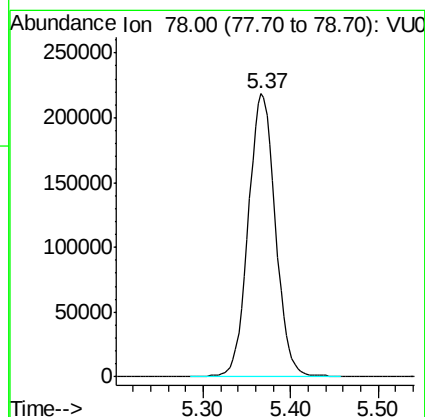
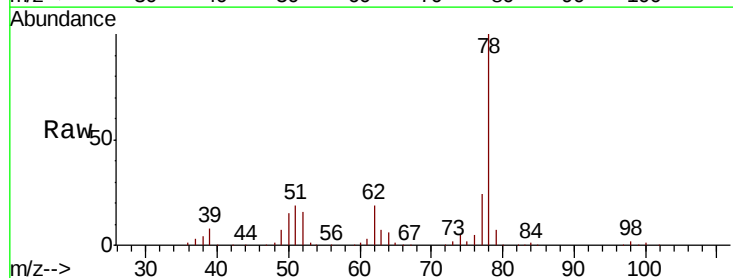
RT: 5.37 min Scan# 1330

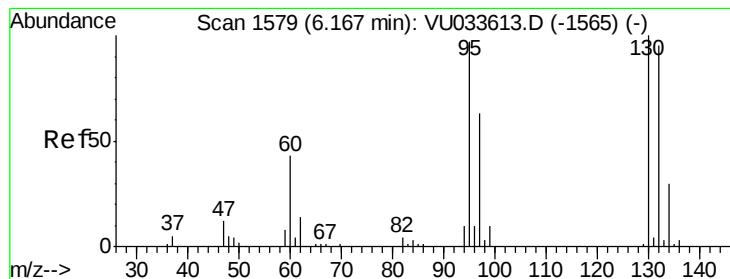
Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

Tgt Ion: 78 Resp: 470219





#34

Trichloroethene

Concen: 50.650 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

Tgt Ion: 95 Resp: 117944

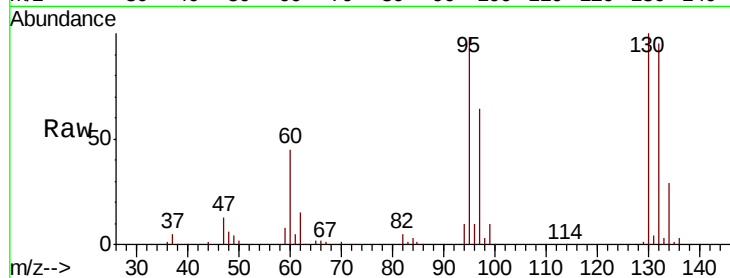
Ion Ratio Lower Upper

95 100

97 65.1 43.8 81.4

132 97.3 68.6 127.4

130 102.4 72.2 134.2

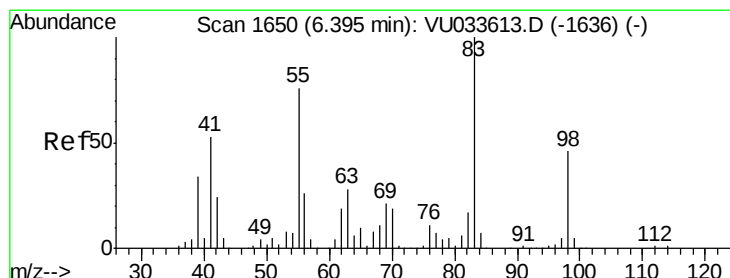
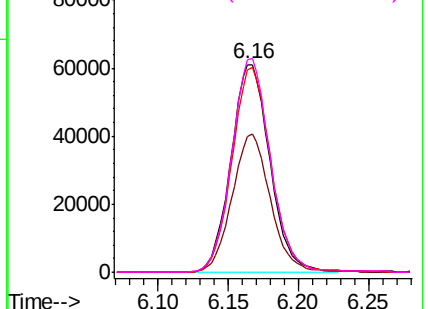
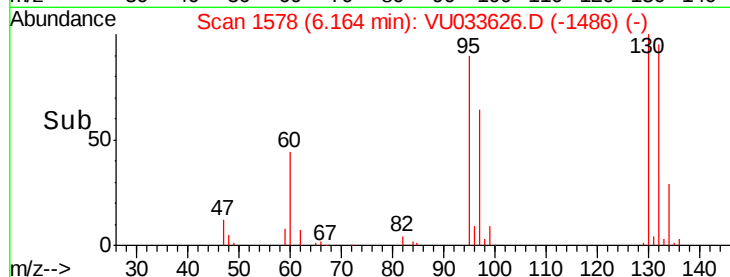


Abundance Ion 95.00 (94.70 to 95.70): VU033613.D (-1565) (-)

Ion 97.00 (96.70 to 97.70): VU033613.D (-1565) (-)

Ion 132.00 (131.70 to 132.70): VU033613.D (-1565) (-)

Ion 130.00 (129.70 to 130.70): VU033613.D (-1565) (-)



#35

Methylcyclohexane

Concen: 50.001 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

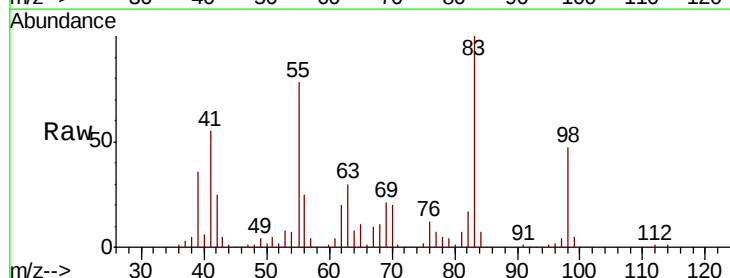
Tgt Ion: 83 Resp: 183293

Ion Ratio Lower Upper

83 100

55 77.9 60.1 90.1

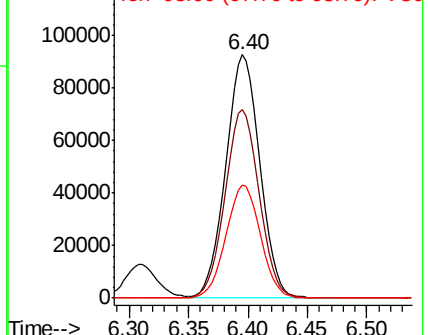
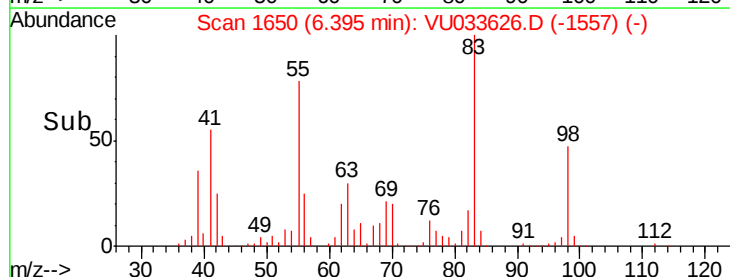
98 47.2 36.8 55.2

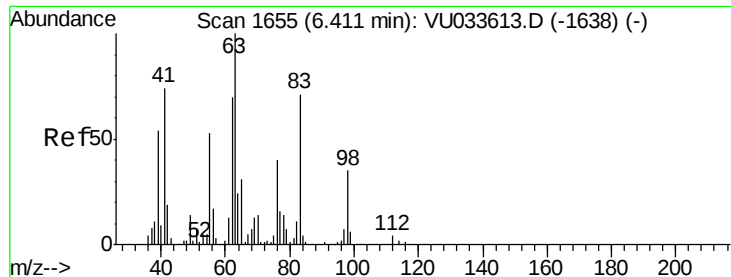


Abundance Ion 83.00 (82.70 to 83.70): VU033613.D (-1636) (-)

Ion 55.00 (54.70 to 55.70): VU033613.D (-1636) (-)

Ion 98.00 (97.70 to 98.70): VU033613.D (-1636) (-)

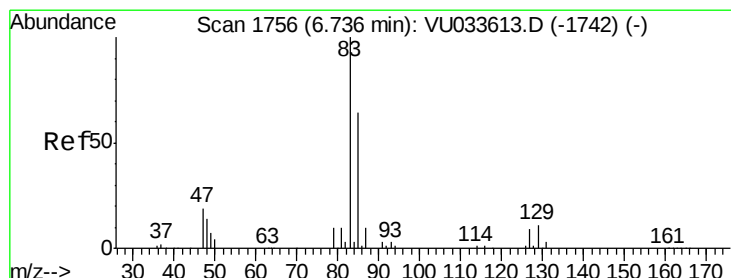
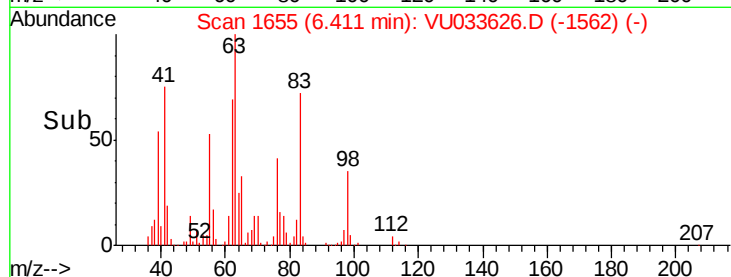
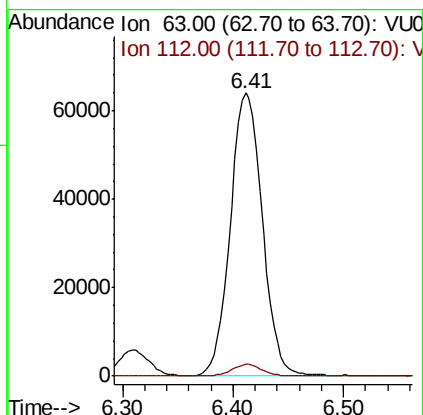
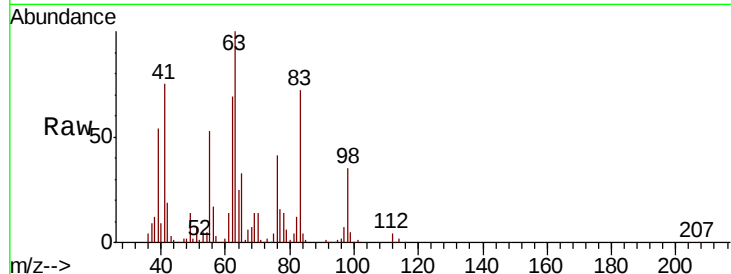




#37
 1,2-Dichloropropane
 Concen: 52.403 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033626.D
 Acq: 07 Aug 2019 18:49

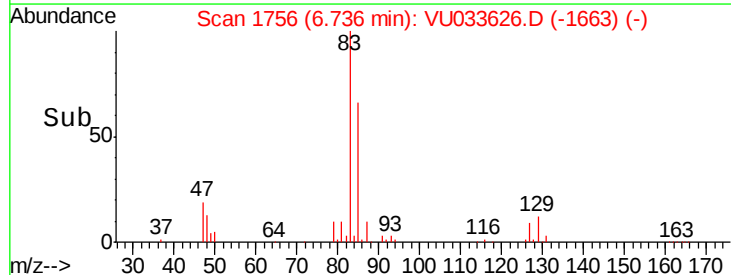
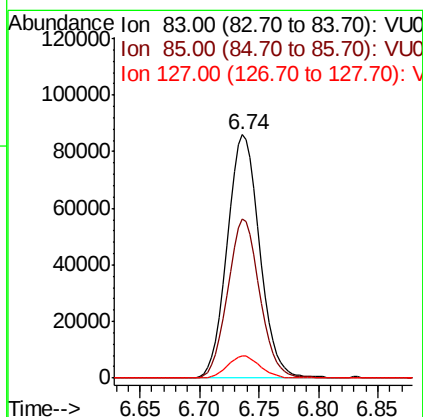
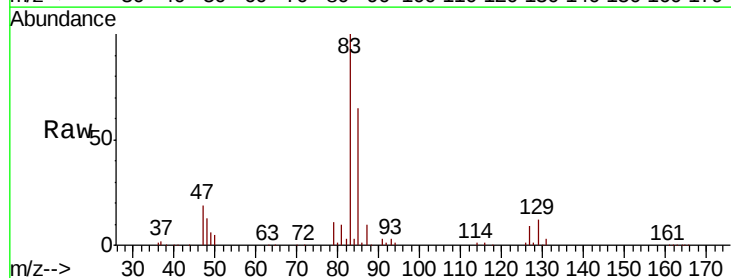
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

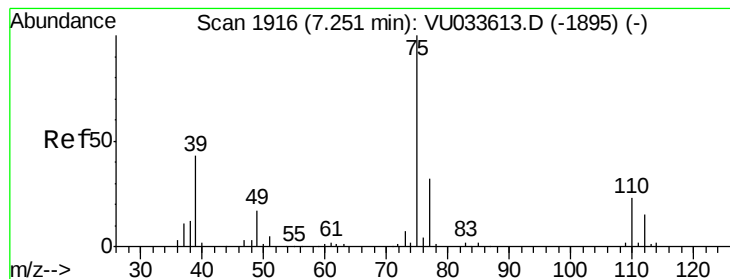
Tgt Ion: 63 Resp: 129392
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.0 4.6



#38
 Bromodichloromethane
 Concen: 52.286 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU033626.D
 Acq: 07 Aug 2019 18:49

Tgt Ion: 83 Resp: 162728
 Ion Ratio Lower Upper
 83 100
 85 65.3 44.9 83.5
 127 9.1 7.0 10.4



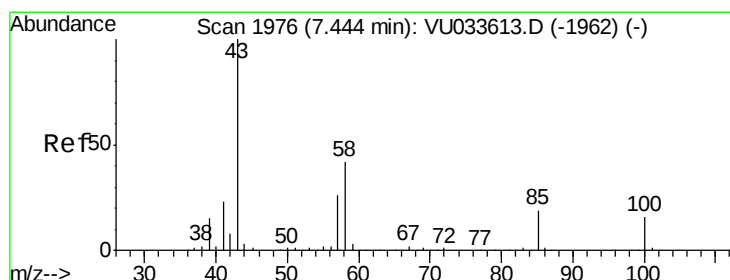
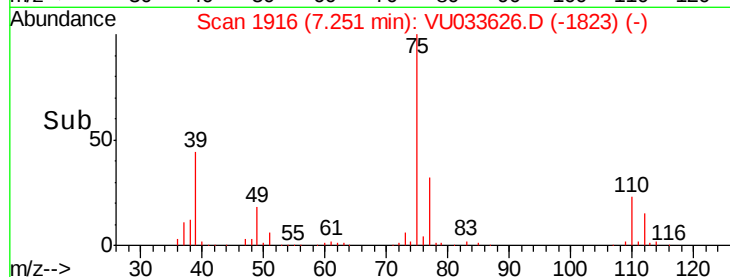
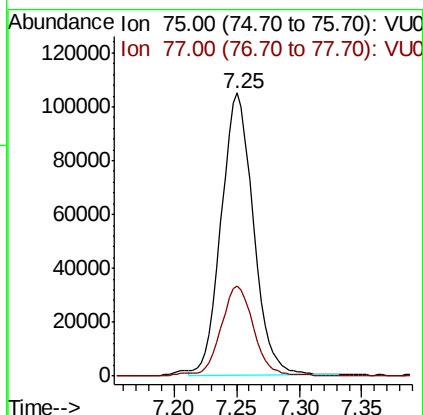
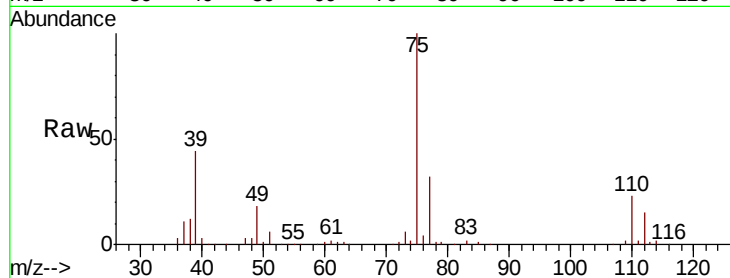


#39

cis-1,3-Dichloropropene
Concen: 49.701 ug/L
RT: 7.25 min Scan# 1916
Delta R.T. -0.00 min
Lab File: VU033626.D
Acq: 07 Aug 2019 18:49

Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

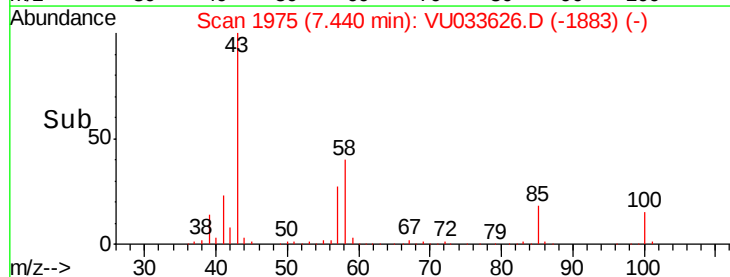
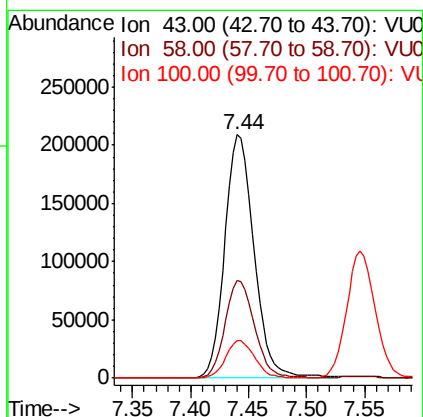
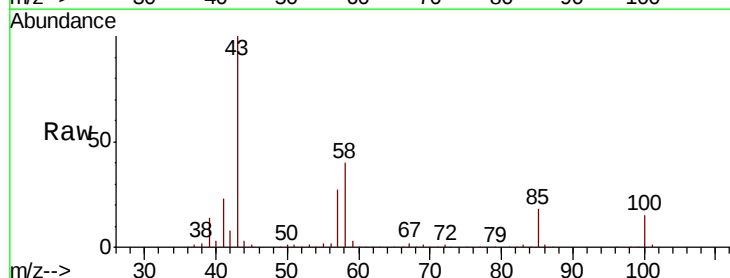
Tgt Ion: 75 Resp: 186623
Ion Ratio Lower Upper
75 100
77 31.9 22.7 42.3

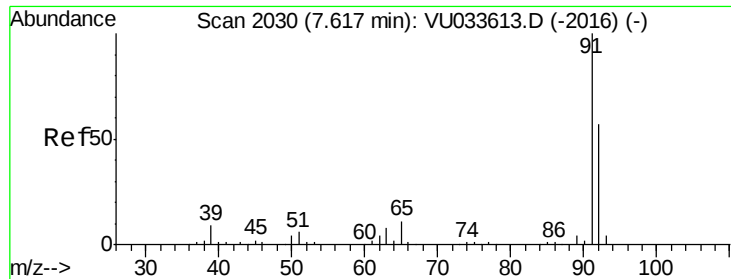


#40

4-Methyl-2-pentanone
Concen: 103.930 ug/L
RT: 7.44 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VU033626.D
Acq: 07 Aug 2019 18:49

Tgt Ion: 43 Resp: 367234
Ion Ratio Lower Upper
43 100
58 40.5 32.5 48.7
100 15.2 12.6 18.8





#42

Toluene

Concen: 52.714 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

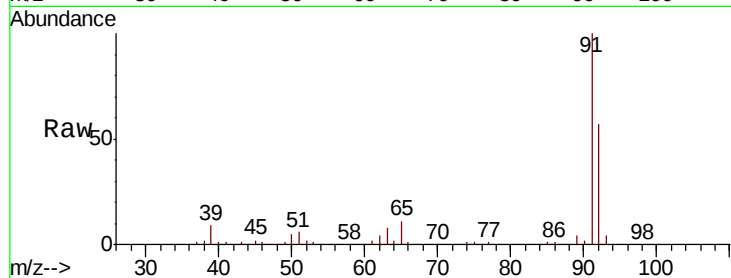
VSTD05052

Tgt Ion: 91 Resp: 509161

Ion Ratio Lower Upper

91 100

92 57.3 40.0 74.2



Abundance Ion 91.00 (90.70 to 91.70): VU033613.D (-2016) (-)

Ion 92.00 (91.70 to 92.70): VU033613.D (-2016) (-)

7.62

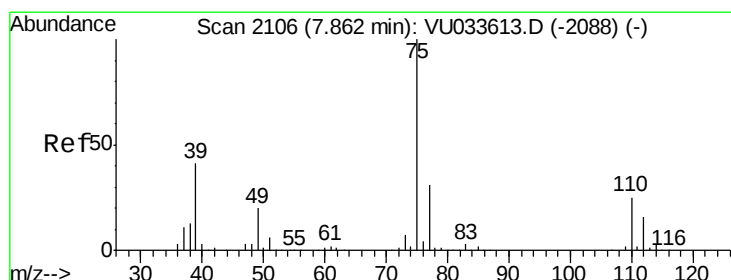
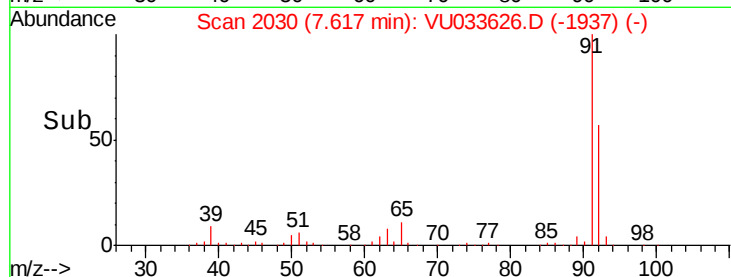
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 51.851 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033626.D

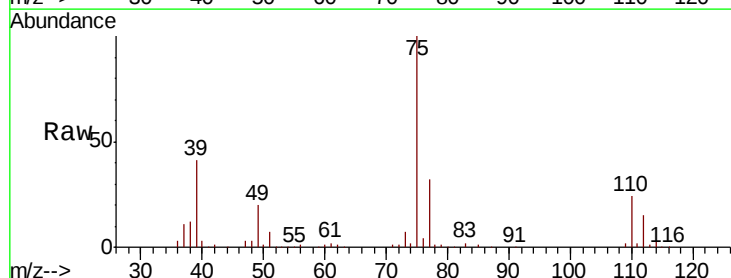
Acq: 07 Aug 2019 18:49

Tgt Ion: 75 Resp: 175192

Ion Ratio Lower Upper

75 100

77 32.1 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VU033613.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU033613.D (-2088) (-)

7.86

120000

100000

80000

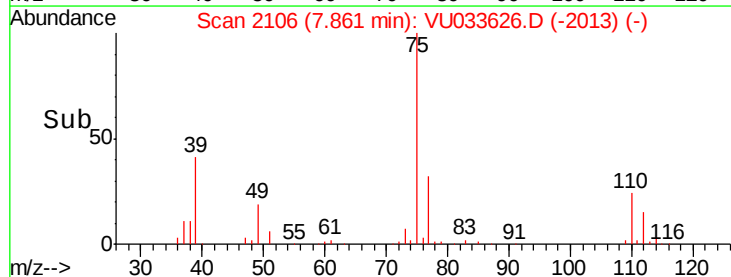
60000

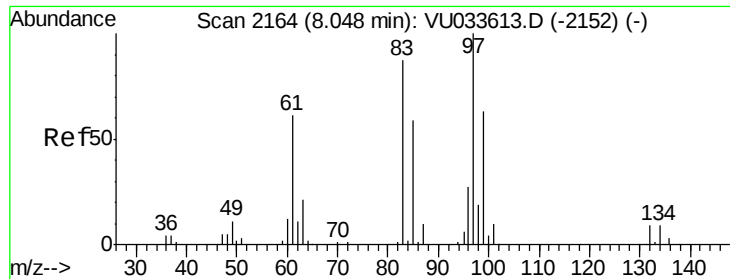
40000

20000

0

Time-->

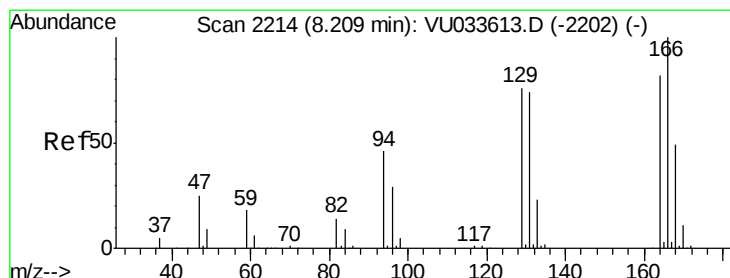
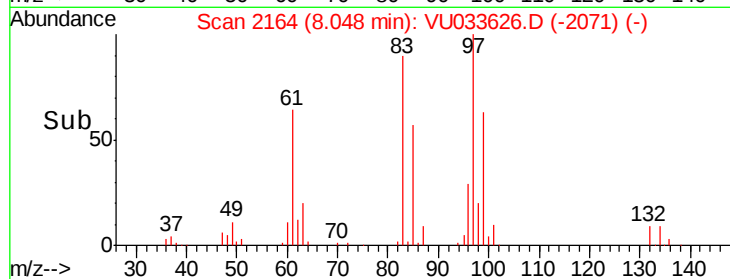
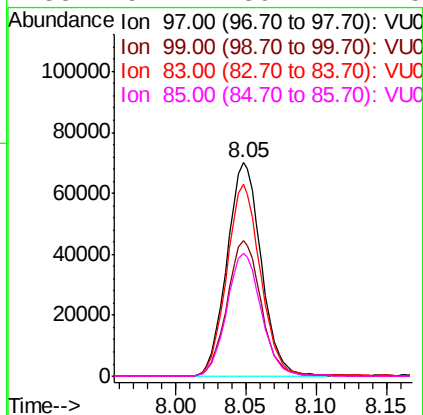
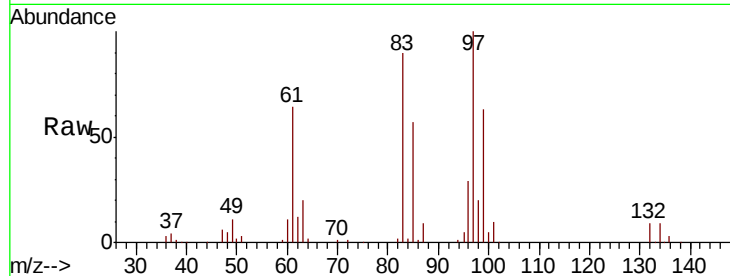




#45
 1,1,2-Trichloroethane
 Concen: 51.709 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU033626.D
 Acq: 07 Aug 2019 18:49

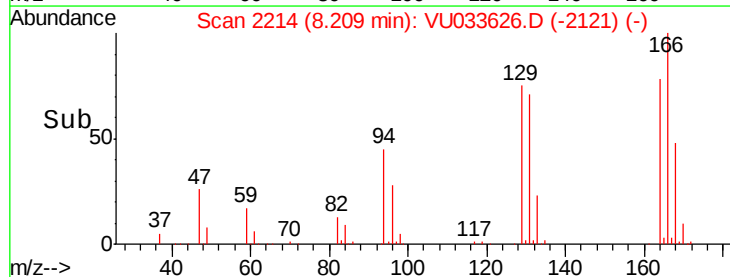
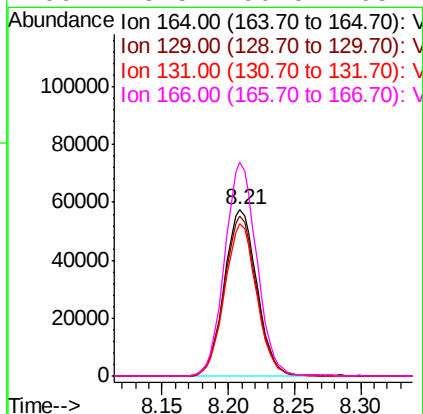
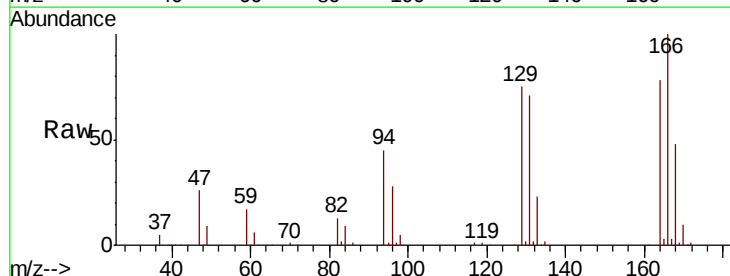
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

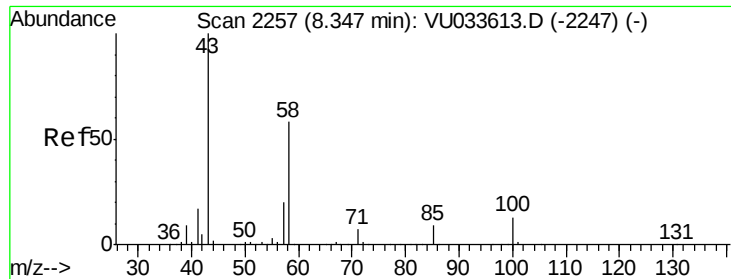
Tgt Ion:	97	Resp:	119464
Ion	Ratio	Lower	Upper
97	100		
99	63.4	42.8	79.6
83	89.9	61.3	113.9
85	57.4	39.1	72.5



#46
 Tetrachloroethene
 Concen: 51.377 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. -0.00 min
 Lab File: VU033626.D
 Acq: 07 Aug 2019 18:49

Tgt Ion:	164	Resp:	98156
Ion	Ratio	Lower	Upper
164	100		
129	96.0	64.1	119.1
131	91.5	62.9	116.7
166	128.5	90.5	168.1

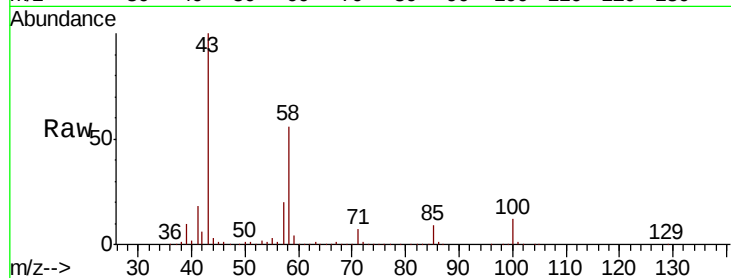




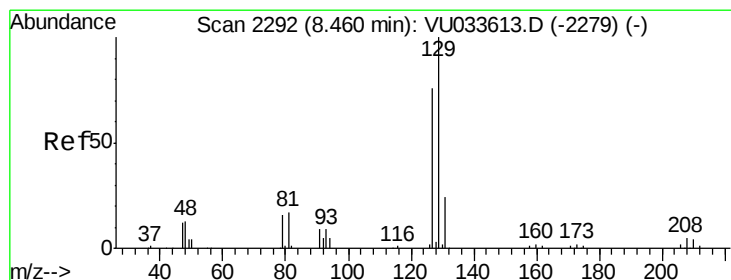
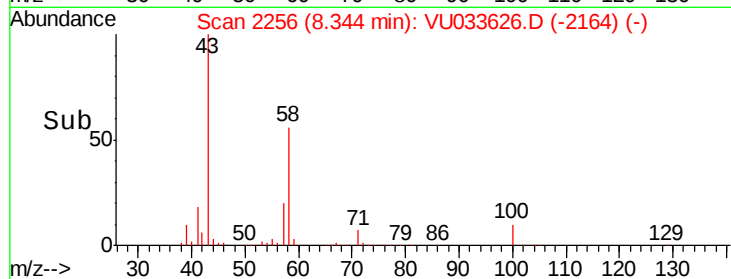
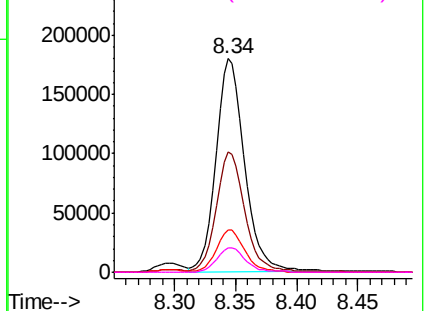
#48
2-Hexanone
Concen: 104.755 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. -0.00 min
Lab File: VU033626.D
Acq: 07 Aug 2019 18:49

Instrument :
MSVOA_U
ClientSampled :
VSTD05052

Tgt Ion: 43 Resp: 295596
Ion Ratio Lower Upper
43 100
58 57.3 45.2 67.8
57 19.8 15.4 23.2
100 11.8 9.6 14.4

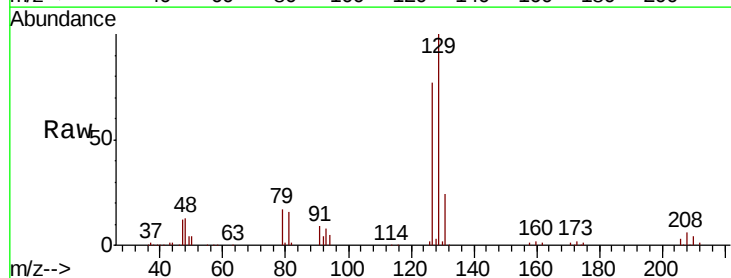


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

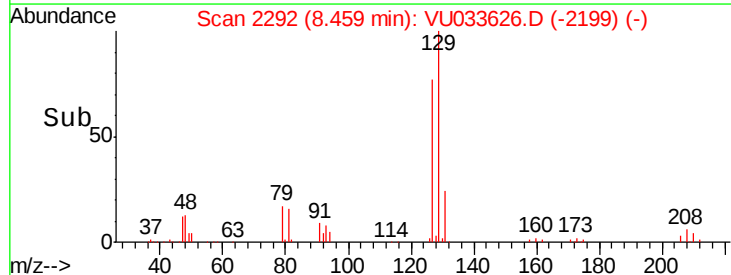
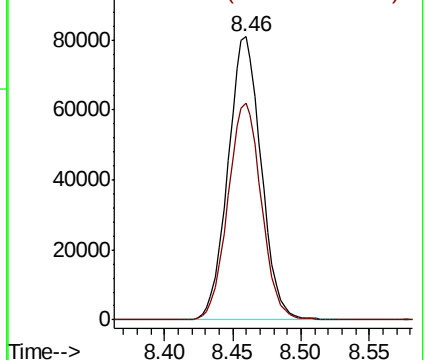


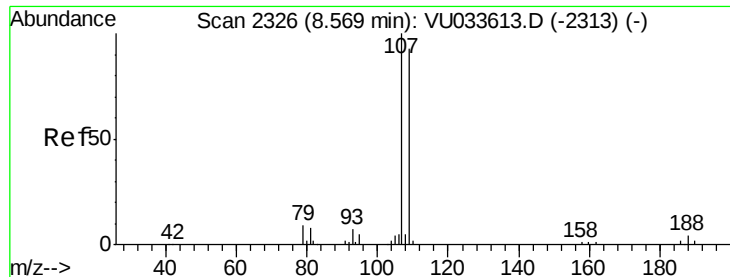
#49
Dibromochloromethane
Concen: 52.631 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU033626.D
Acq: 07 Aug 2019 18:49

Tgt Ion: 129 Resp: 136656
Ion Ratio Lower Upper
129 100
127 76.7 53.4 99.2



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

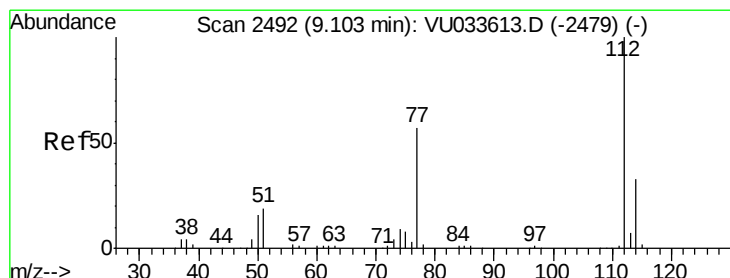
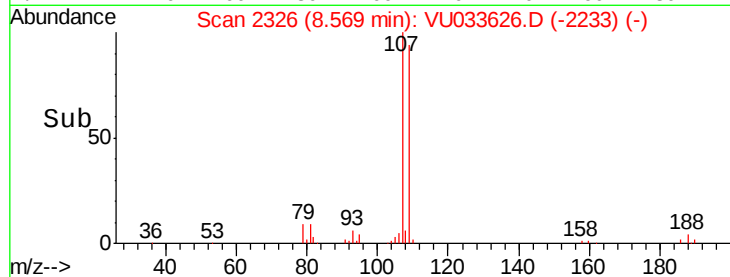
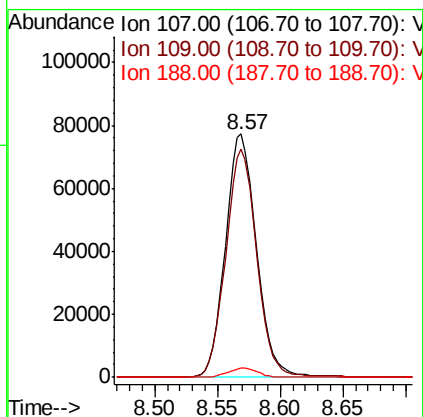
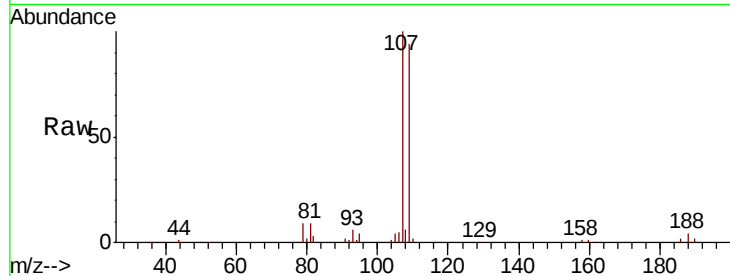




#50
1,2-Dibromoethane
Concen: 52.544 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. -0.00 min
Lab File: VU033626.D
Acq: 07 Aug 2019 18:49

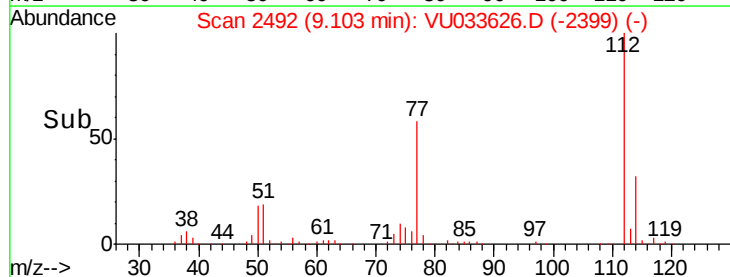
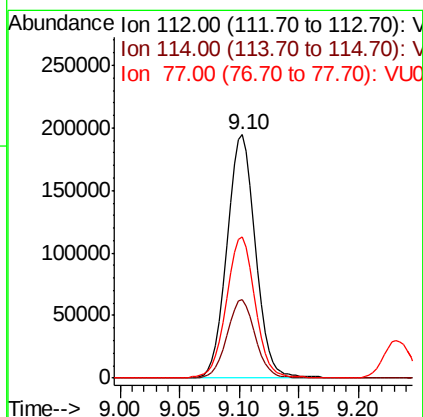
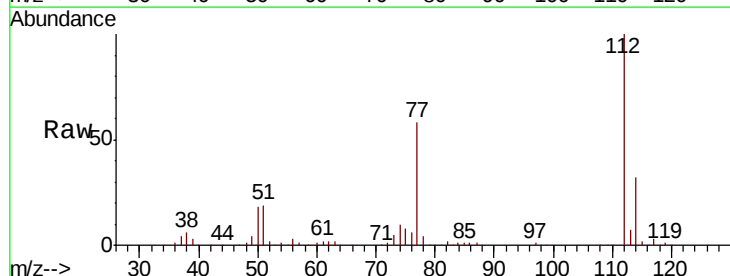
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

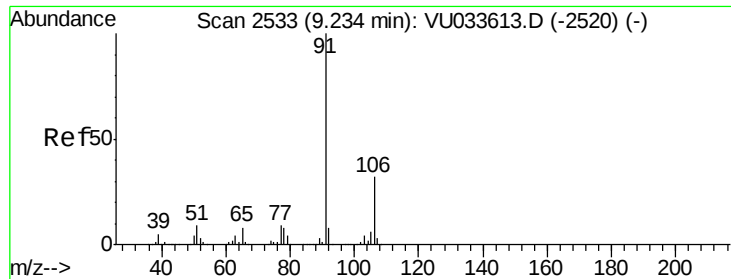
Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.9	66.5	123.5
188	3.7	3.0	4.6



#51
Chlorobenzene
Concen: 51.303 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. -0.00 min
Lab File: VU033626.D
Acq: 07 Aug 2019 18:49

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.5	41.9
77	57.8	46.1	69.1





#52

Ethylbenzene

Concen: 52.335 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

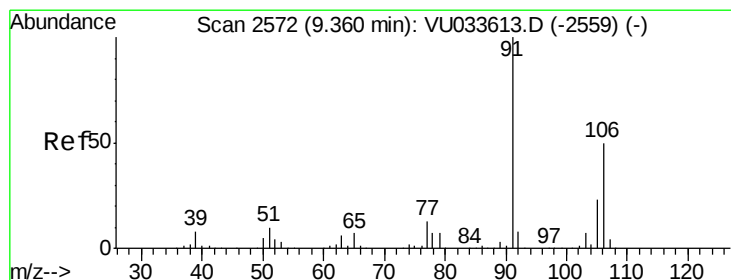
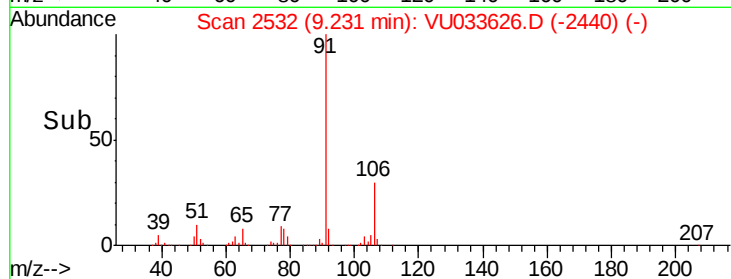
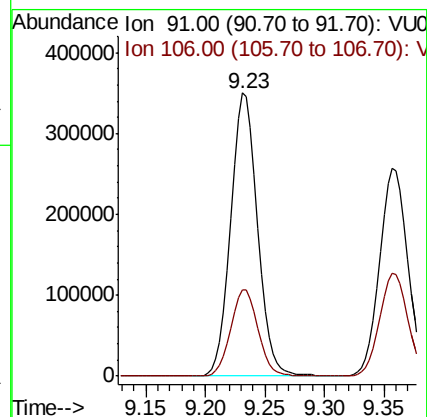
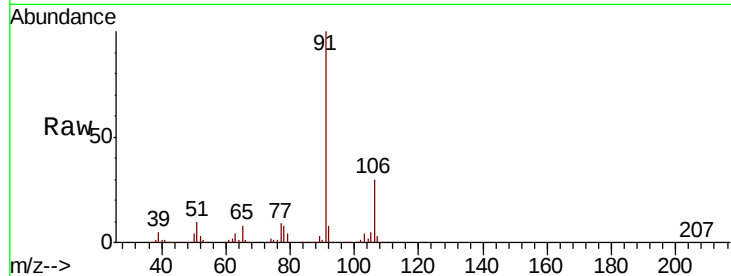
VSTD05052

Tgt Ion: 91 Resp: 548064

Ion Ratio Lower Upper

91 100

106 30.4 21.8 40.4



#53

m,p-Xylene

Concen: 52.804 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033626.D

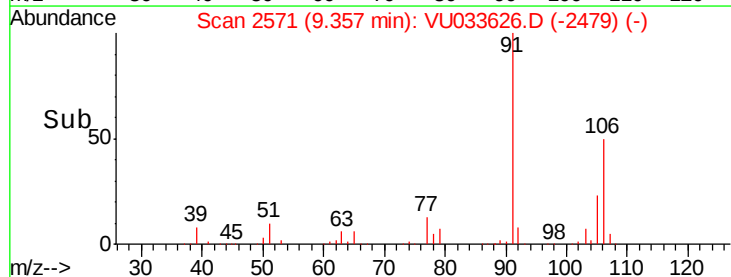
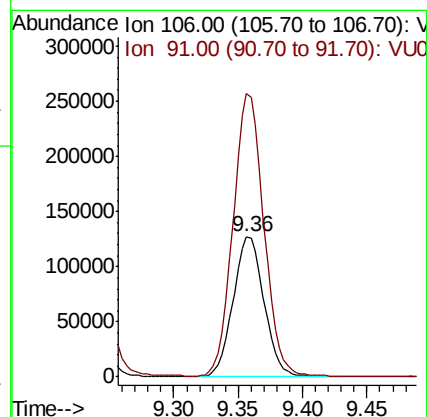
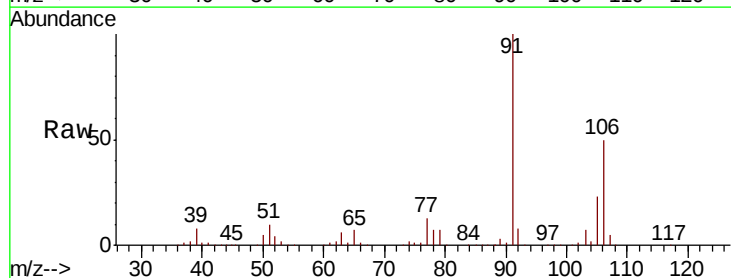
Acq: 07 Aug 2019 18:49

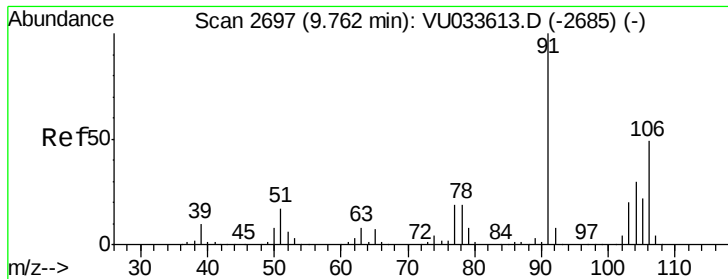
Tgt Ion: 106 Resp: 210586

Ion Ratio Lower Upper

106 100

91 201.6 141.3 262.5





#54

o-xylene

Concen: 52.867 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

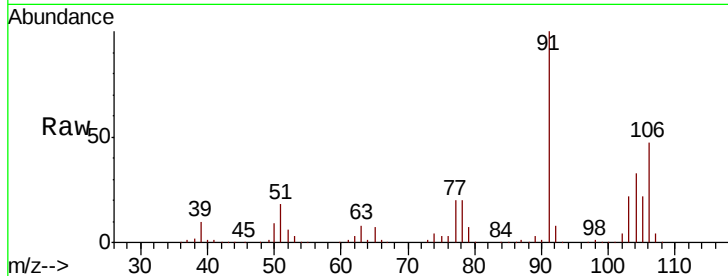
VSTD05052

Tgt Ion:106 Resp: 206520

Ion Ratio Lower Upper

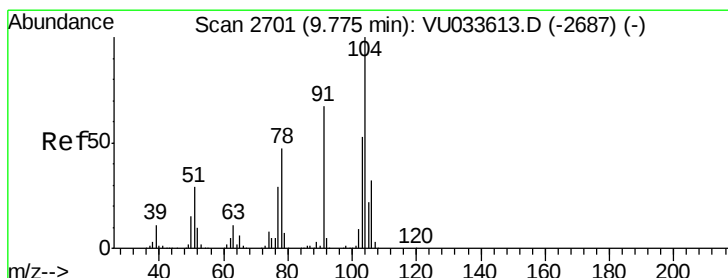
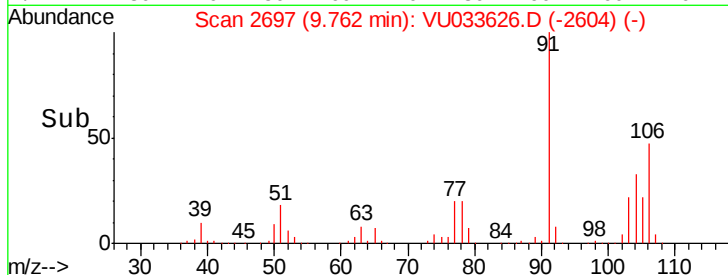
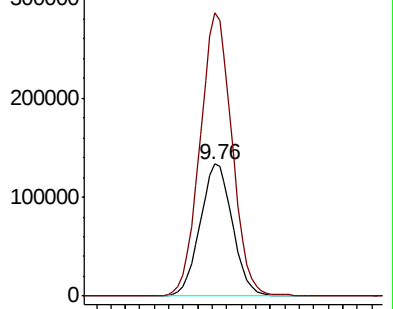
106 100

91 214.3 146.6 272.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 54.536 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033626.D

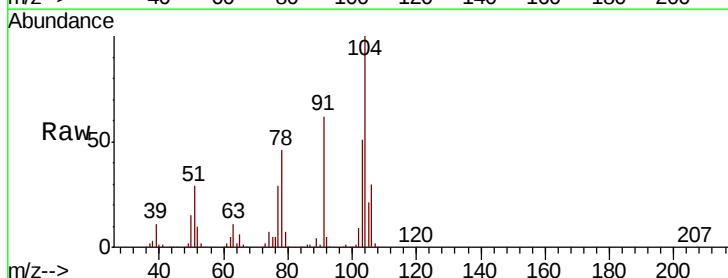
Acq: 07 Aug 2019 18:49

Tgt Ion:104 Resp: 361749

Ion Ratio Lower Upper

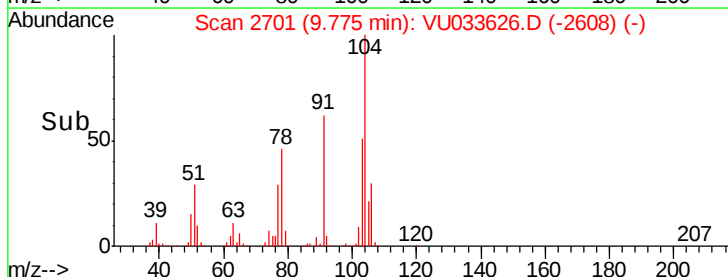
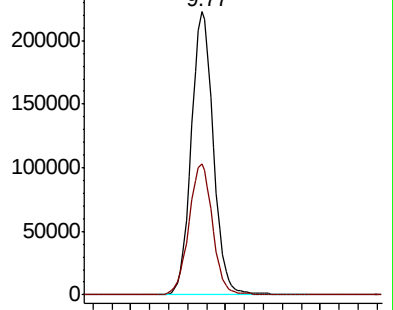
104 100

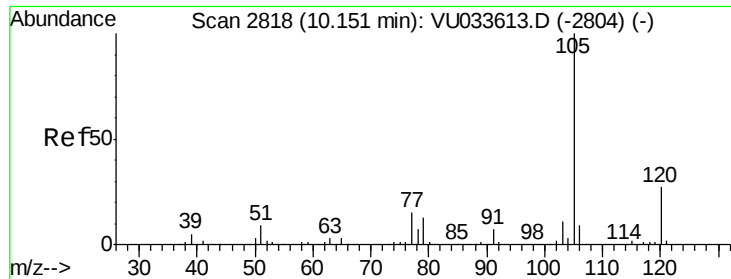
78 46.5 32.9 61.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.918 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

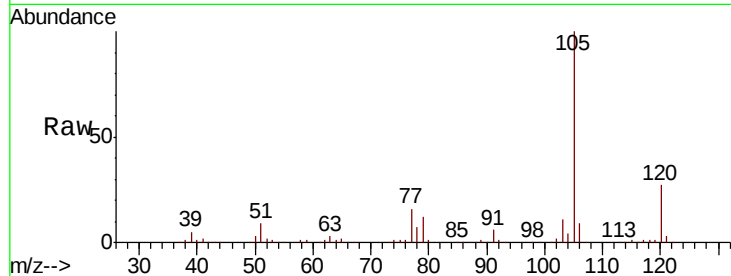
Tgt Ion: 105 Resp: 533297

Ion Ratio Lower Upper

105 100

120 27.1 21.4 32.2

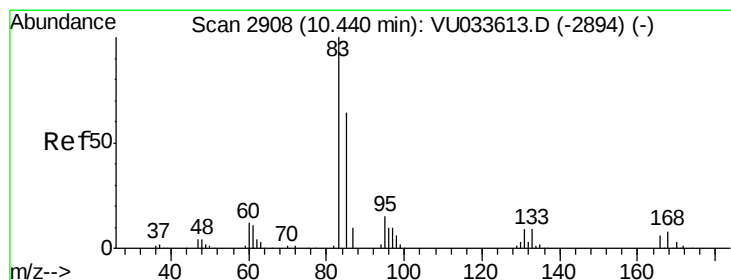
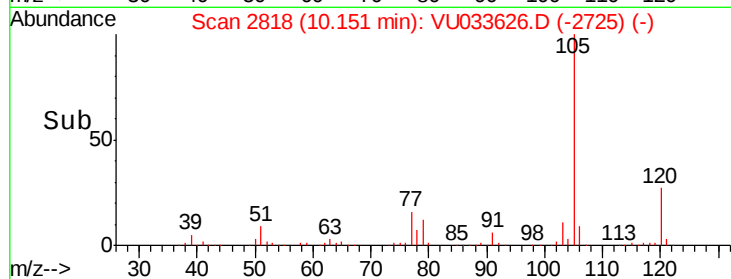
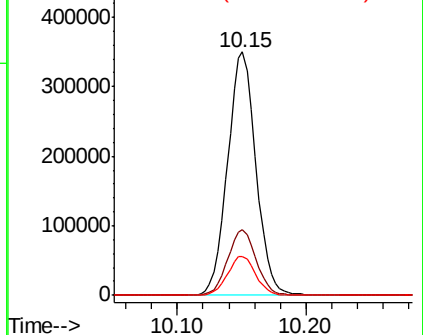
77 16.0 12.6 18.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 51.238 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

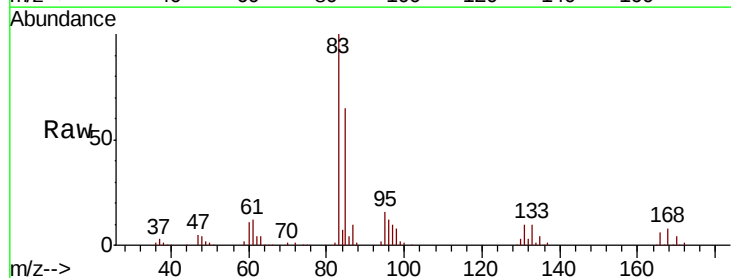
Tgt Ion: 83 Resp: 211670

Ion Ratio Lower Upper

83 100

85 64.5 44.3 82.3

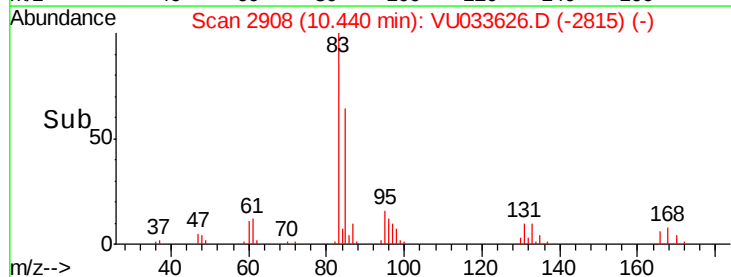
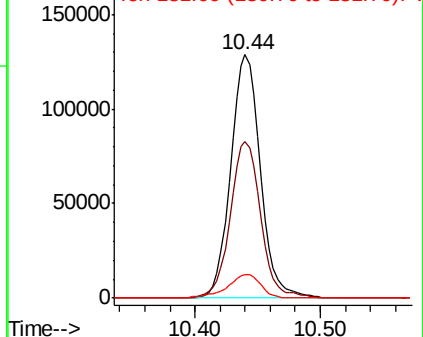
131 9.8 7.8 11.6

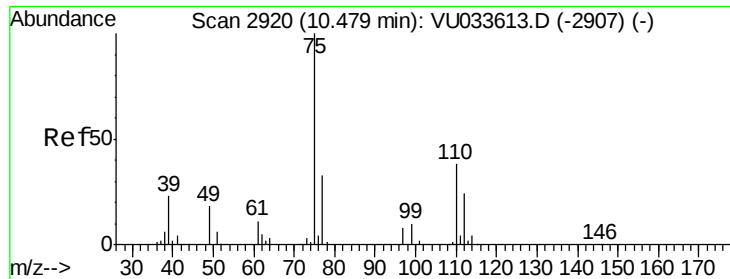


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 52.265 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

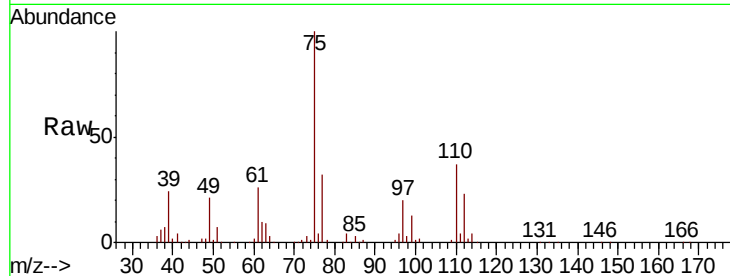
VSTD05052

Tgt Ion: 75 Resp: 169024

Ion Ratio Lower Upper

75 100

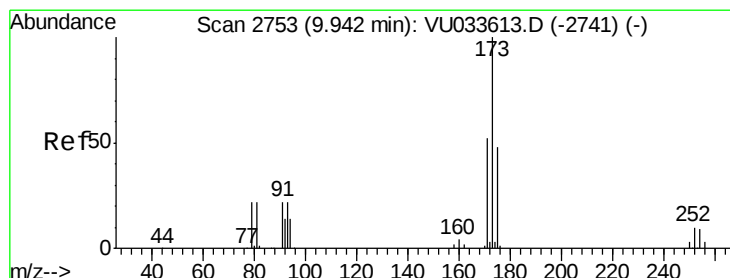
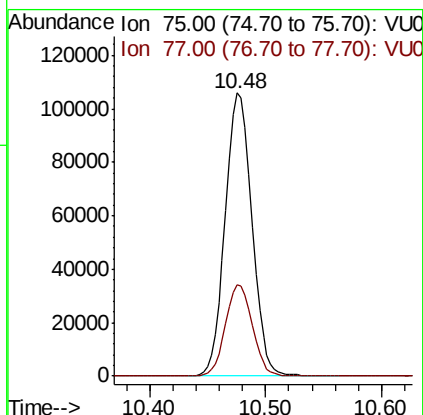
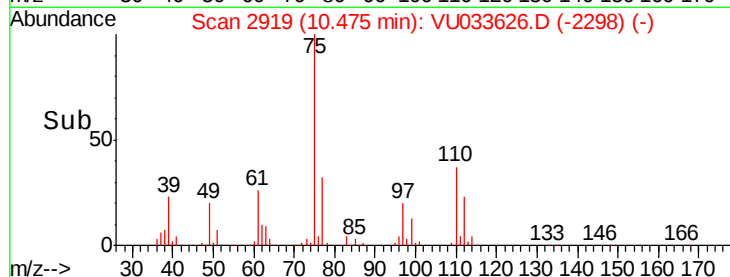
77 32.3 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU033613.D (-2907) (-)

Ion 77.00 (76.70 to 77.70): VU033613.D (-2907) (-)

10.48



#61

Bromoform

Concen: 50.181 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

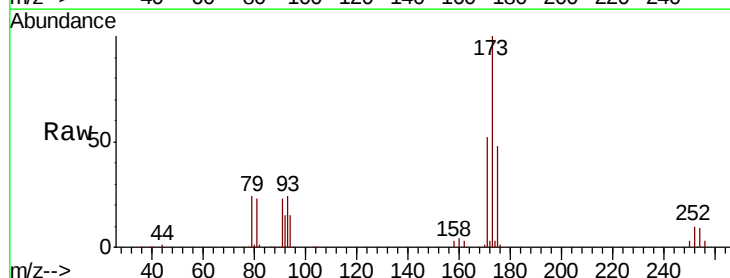
Tgt Ion: 173 Resp: 102171

Ion Ratio Lower Upper

173 100

175 48.9 39.4 59.0

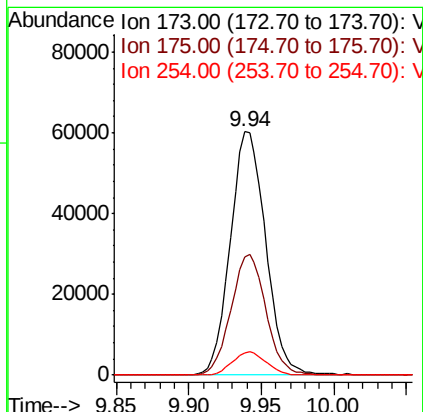
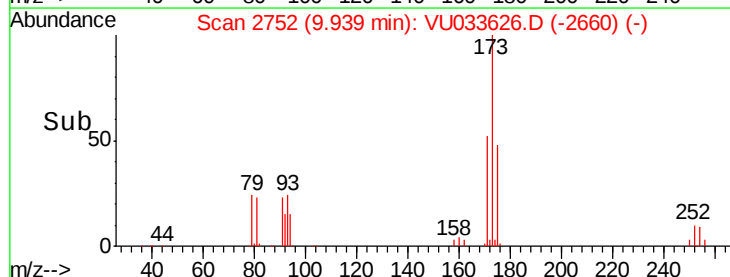
254 9.2 7.2 10.8

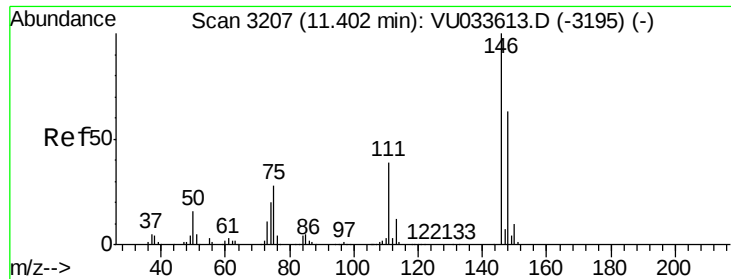


Abundance Ion 173.00 (172.70 to 173.70): VU033613.D (-2741) (-)

Ion 175.00 (174.70 to 175.70): VU033613.D (-2741) (-)

Ion 254.00 (253.70 to 254.70): VU033613.D (-2741) (-)

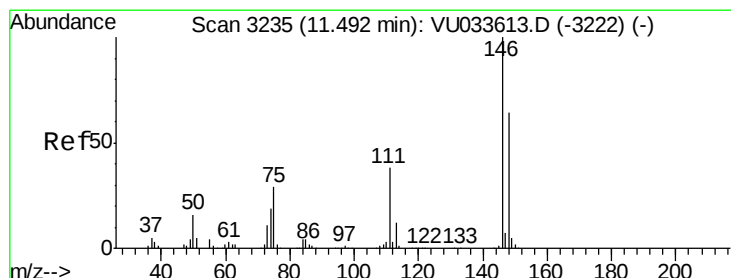
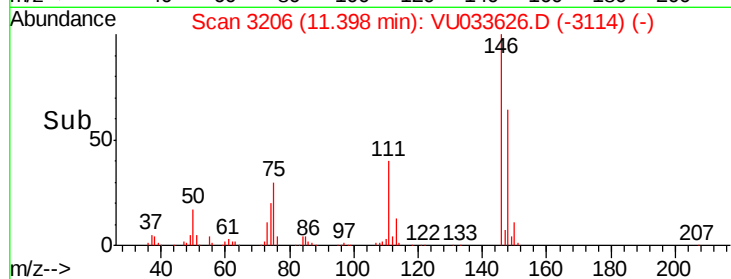
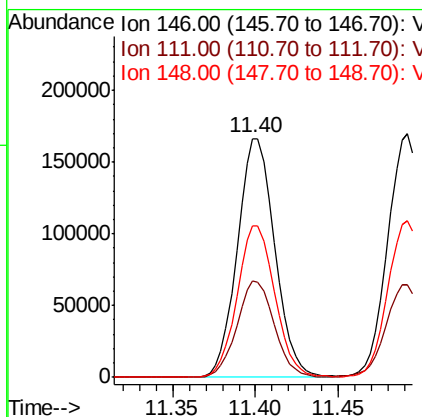
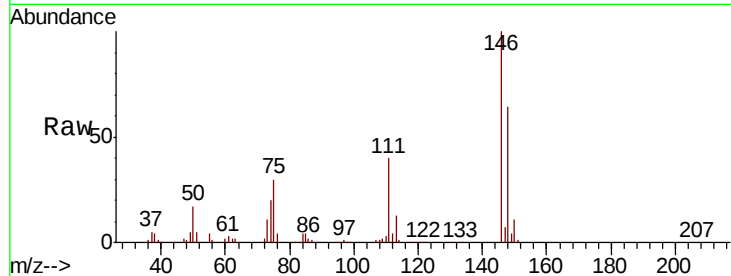




#62
 1,3-Dichlorobenzene
 Concen: 50.975 ug/L
 RT: 11.40 min Scan# 3206
 Delta R.T. -0.00 min
 Lab File: VU033626.D
 Acq: 07 Aug 2019 18:49

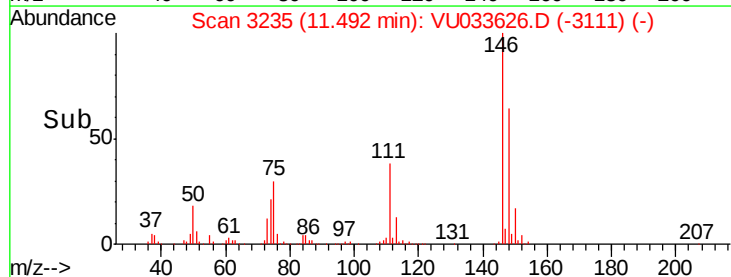
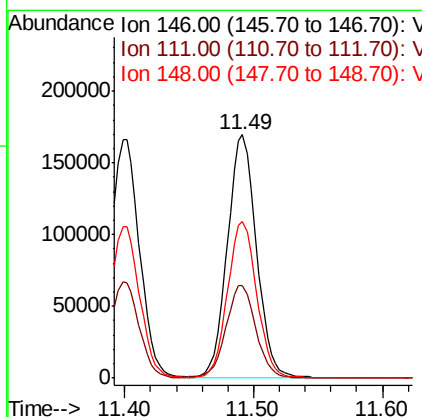
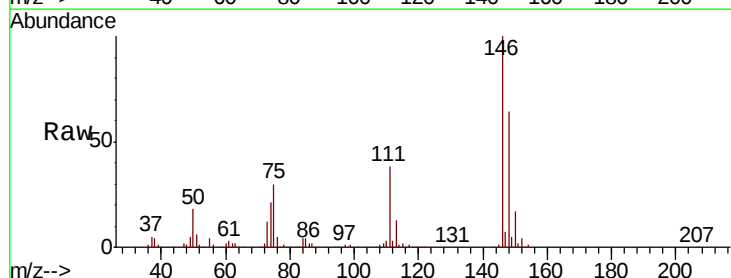
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

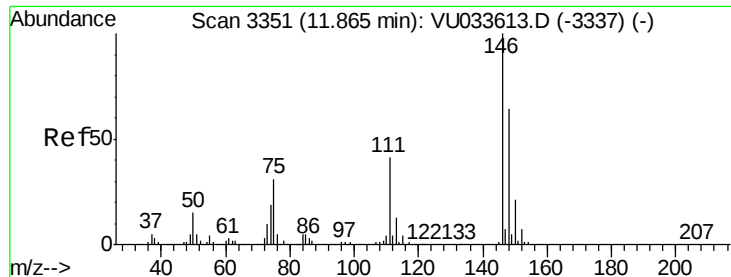
Tgt Ion:146 Resp: 261541
 Ion Ratio Lower Upper
 146 100
 111 40.2 27.5 51.1
 148 63.6 44.5 82.7



#63
 1,4-Dichlorobenzene
 Concen: 50.430 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU033626.D
 Acq: 07 Aug 2019 18:49

Tgt Ion:146 Resp: 264336
 Ion Ratio Lower Upper
 146 100
 111 38.0 26.9 49.9
 148 64.5 44.9 83.3

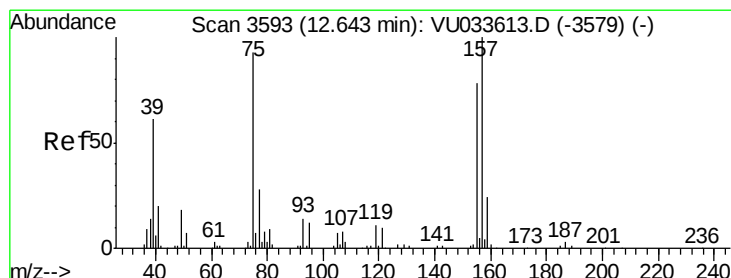
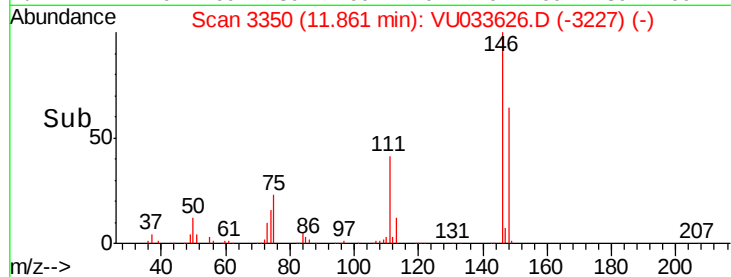
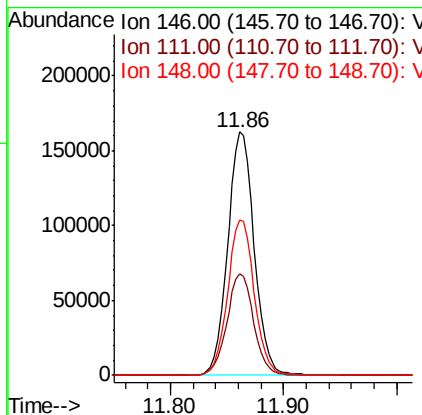
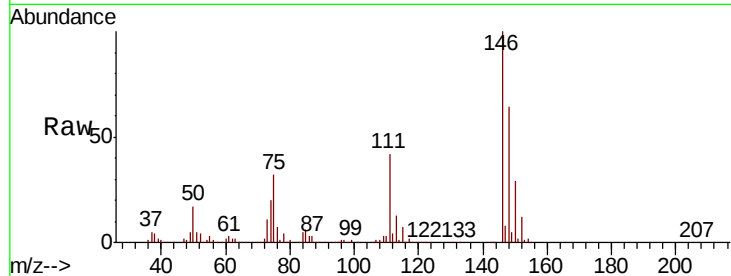




#65
 1,2-Dichlorobenzene
 Concen: 51.757 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. -0.00 min
 Lab File: VU033626.D
 Acq: 07 Aug 2019 18:49

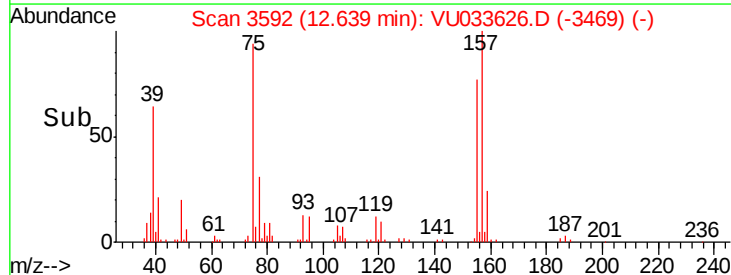
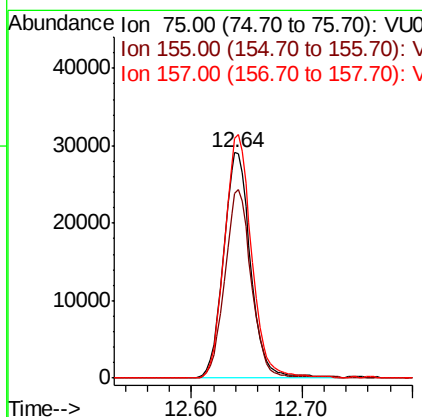
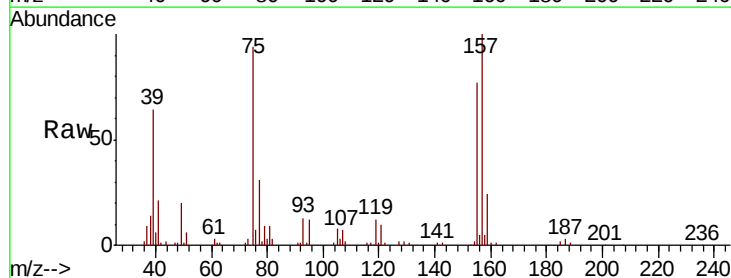
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

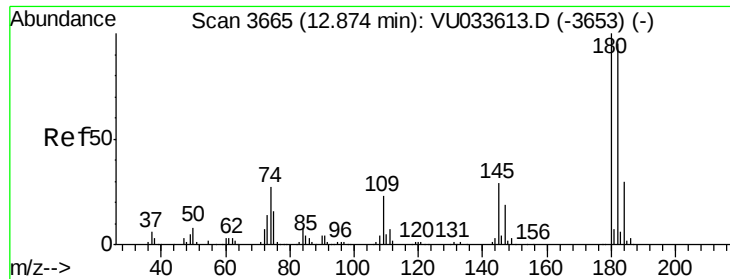
Tgt Ion: 146 Resp: 264853
 Ion Ratio Lower Upper
 146 100
 111 41.8 33.0 49.6
 148 64.0 50.6 75.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 51.406 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. -0.00 min
 Lab File: VU033626.D
 Acq: 07 Aug 2019 18:49

Tgt Ion: 75 Resp: 49575
 Ion Ratio Lower Upper
 75 100
 155 81.7 69.0 103.6
 157 106.1 87.8 131.8

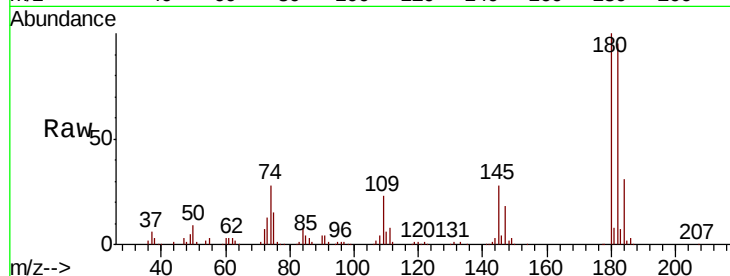




#67
 1,3,5-Trichlorobenzene
 Concen: 50.016 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033626.D
 Acq: 07 Aug 2019 18:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Tgt Ion:	180	Resp:	197576
Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.2	114.2
184	31.1	24.2	36.4
145	28.9	23.0	34.4



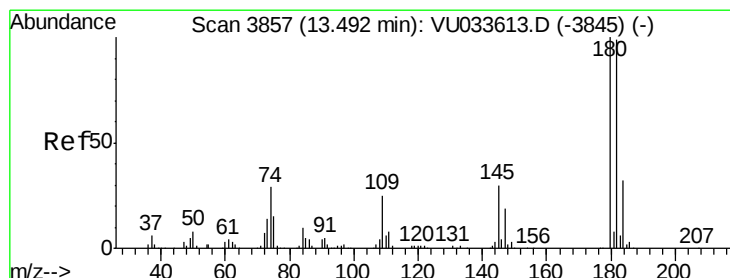
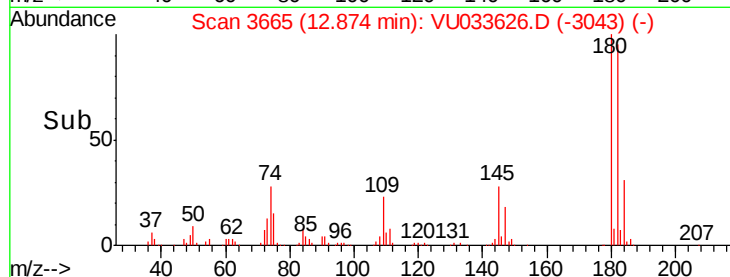
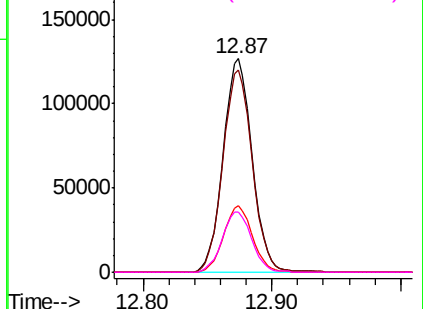
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

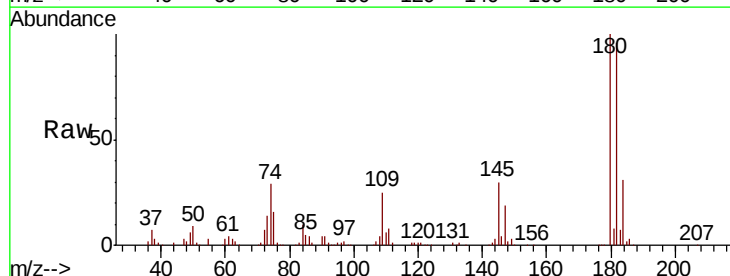
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 50.298 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. -0.00 min
 Lab File: VU033626.D
 Acq: 07 Aug 2019 18:49

Tgt Ion:	180	Resp:	169491
Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.7	115.1
145	30.1	23.5	35.3

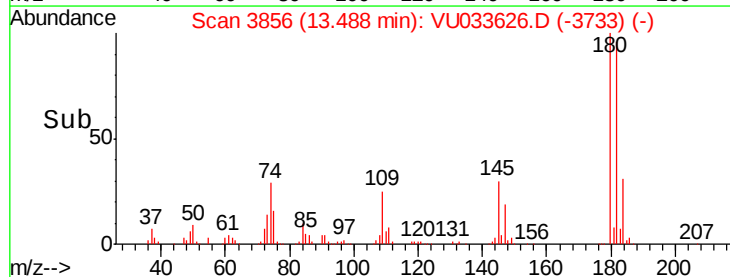
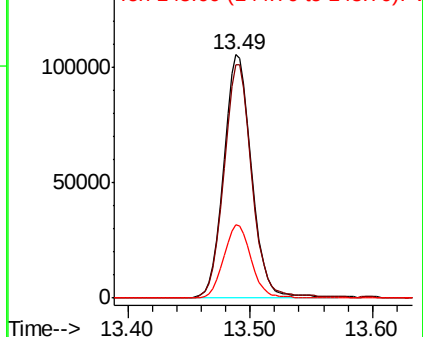


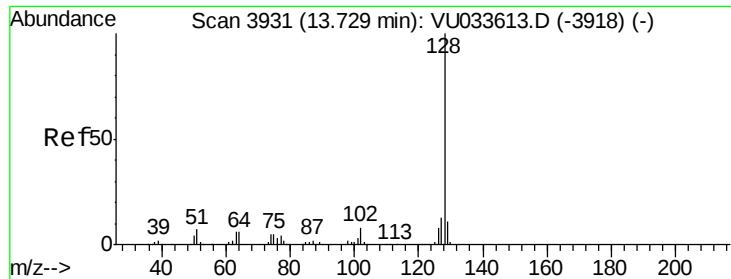
Abundance

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: 53.242 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

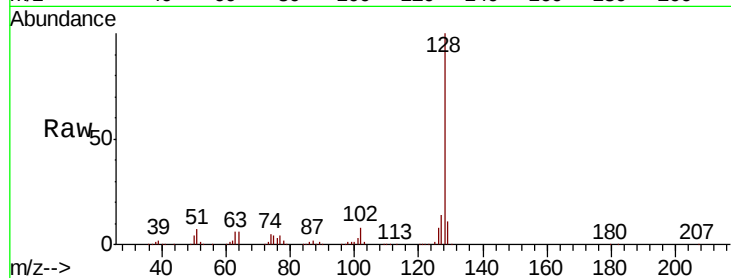
Tgt Ion:128 Resp: 521402

Ion Ratio Lower Upper

128 100

127 13.3 10.6 15.8

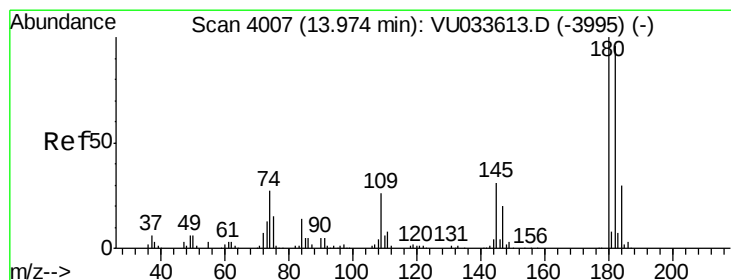
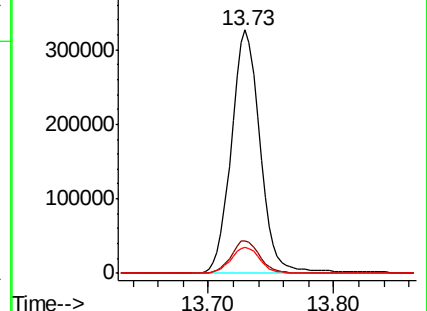
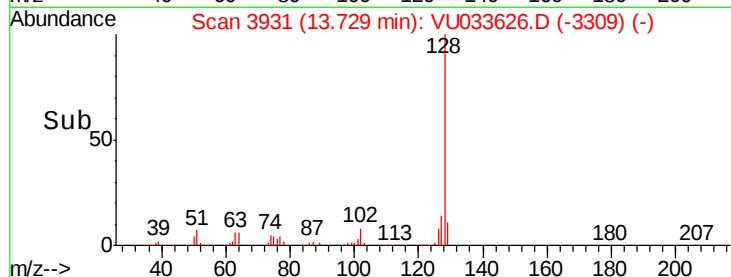
129 10.8 8.6 12.8



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: 51.490 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. -0.00 min

Lab File: VU033626.D

Acq: 07 Aug 2019 18:49

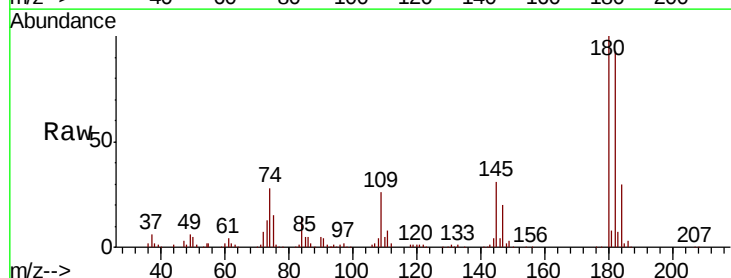
Tgt Ion:180 Resp: 184571

Ion Ratio Lower Upper

180 100

182 94.7 77.4 116.2

145 30.5 24.5 36.7



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

