

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081319\
 Data File : VU033786.D
 Acq On : 13 Aug 2019 17:09
 Operator : JC/SP
 Sample : MDL07
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Quant Time: Aug 14 04:27:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM081319W.M
 Quant Title : VOC Analysis
 QLast Update : Wed Aug 14 04:23:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	388814	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	385884	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	183051	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	179056	48.49	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	96.98%
7) Chloroethane-d5	1.67	69	169550	49.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.60%
11) 1,1-Dichloroethene-d2	2.26	63	233836	38.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	77.54%
21) 2-Butanone-d5	4.16	46	219589	106.89	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	106.89%
24) Chloroform-d	4.62	84	283618	49.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.36%
26) 1,2-Dichloroethane-d4	5.29	65	187723	52.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.16%
32) Benzene-d6	5.32	84	580130	52.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.96%
36) 1,2-Dichloropropane-d6	6.31	67	186758	52.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	104.56%
41) Toluene-d8	7.55	98	520255	50.47	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.94%
43) trans-1,3-Dichloropropene-	7.83	79	85895	50.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.76%
47) 2-Hexanone-d5	8.30	63	149387	104.50	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.50%
56) 1,1,2,2-Tetrachloroethane-	10.41	84	252830	49.59	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.18%
66) 1,2-Dichlorobenzene-d4	11.84	152	201573	54.51	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	109.02%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	11489	2.964 ug/L	99
3) Chloromethane	1.32	50	12066	2.998 ug/L	97
5) Vinyl chloride	1.39	62	13640	3.130 ug/L #	71
6) Bromomethane	1.62	94	8618	2.694 ug/L	93
8) Chloroethane	1.69	64	8967	2.879 ug/L	99
9) Trichlorofluoromethane	1.87	101	16525	2.951 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	10306	3.761 ug/L #	84
12) 1,1-Dichloroethene	2.27	96	9608	3.563 ug/L #	1
13) Acetone	2.32	43	11444	6.116 ug/L	97
14) Carbon disulfide	2.46	76	26035	3.050 ug/L	100
15) Methyl Acetate	2.61	43	8956	2.863 ug/L	98
16) Methylene chloride	2.68	84	9726	3.160 ug/L	91
17) trans-1,2-Dichloroethene	2.96	96	8829	3.146 ug/L	92
18) Methyl tert-butyl Ether	2.98	73	24320	2.916 ug/L #	92
19) 1,1-Dichloroethane	3.42	63	16408	3.043 ug/L	97
20) cis-1,2-Dichloroethene	4.20	96	8994	2.919 ug/L	90
22) 2-Butanone	4.25	43	8576	3.773 ug/L	80

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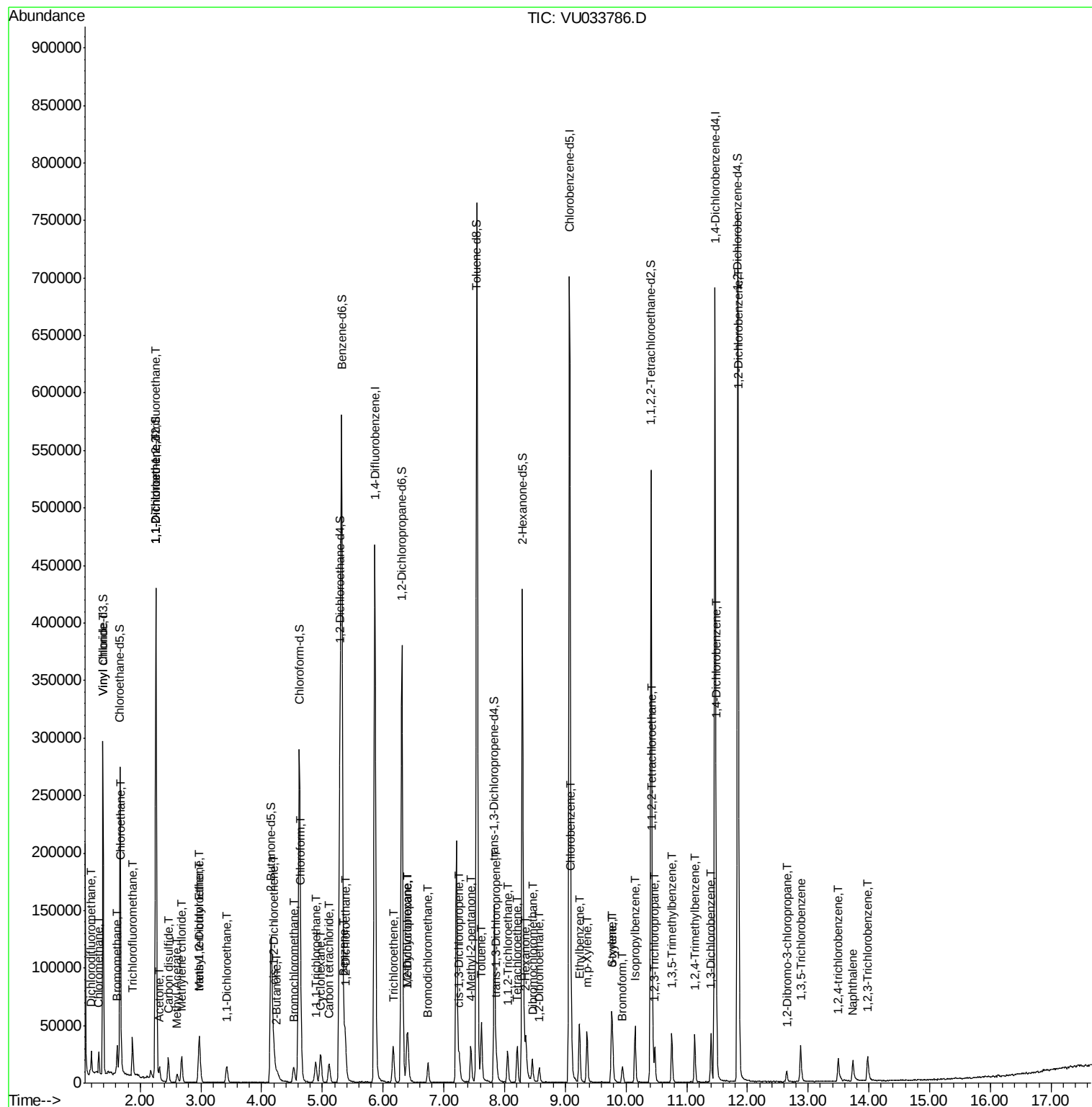
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.53	128	4952	3.102	ug/L	92
25) Chloroform	4.65	83	18772	3.350	ug/L	93
27) 1,2-Dichloroethane	5.39	62	12889	2.961	ug/L	95
29) Cyclohexane	4.97	56	11647	2.746	ug/L	98
30) 1,1,1-Trichloroethane	4.89	97	14154	2.990	ug/L	98
31) Carbon tetrachloride	5.11	117	12721	3.026	ug/L	98
33) Benzene	5.37	78	34775	2.946	ug/L	100
34) Trichloroethene	6.17	95	9372	2.996	ug/L	93
35) Methylcyclohexane	6.40	83	12872	2.824	ug/L	98
37) 1,2-Dichloropropane	6.41	63	10057	3.126	ug/L	100
38) Bromodichloromethane	6.74	83	12277	2.958	ug/L	91
39) cis-1,3-Dichloropropene	7.25	75	13806	2.907	ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	21543	5.382	ug/L	99
42) Toluene	7.62	91	36592	2.935	ug/L	97
44) trans-1,3-Dichloropropene	7.87	75	12793	2.958	ug/L	97
45) 1,1,2-Trichloroethane	8.05	97	9269	3.053	ug/L	96
46) Tetrachloroethene	8.21	164	7049	2.874	ug/L	96
48) 2-Hexanone	8.35	43	23081	7.534	ug/L	98
49) Dibromochloromethane	8.46	129	9986	2.946	ug/L	93
50) 1,2-Dibromoethane	8.57	107	9379	2.945	ug/L	99
51) Chlorobenzene	9.10	112	24300	2.995	ug/L	97
52) Ethylbenzene	9.23	91	36519	2.783	ug/L	99
53) m,p-Xylene	9.36	106	12294	2.507	ug/L	87
54) o-xylene	9.76	106	12248	2.538	ug/L	96
55) Styrene	9.78	104	19269	2.353	ug/L	91
57) 1,1,2,2-Tetrachloroethane	10.44	83	15207	2.995	ug/L #	95
59) Bromoform	9.94	173	7179	3.070	ug/L	93
60) 1,2,3-Trichloropropane	10.48	75	12414	3.370	ug/L	96
61) Isopropylbenzene	10.15	105	31329	2.765	ug/L	99
62) 1,3,5-Trimethylbenzene	10.76	105	23431	2.561	ug/L	97
63) 1,2,4-Trimethylbenzene	11.13	105	22020	2.426	ug/L	95
64) 1,3-Dichlorobenzene	11.40	146	17547	3.086	ug/L	96
65) 1,4-Dichlorobenzene	11.49	146	19120	3.281	ug/L	96
67) 1,2-Dichlorobenzene	11.86	146	19463	3.369	ug/L	95
68) 1,2-Dibromo-3-chloropropan	12.65	75	2962	2.884	ug/L	89
69) 1,3,5-Trichlorobenzene	12.88	180	11552	2.690	ug/L	99
70) 1,2,4-trichlorobenzene	13.50	180	8049	2.260	ug/L	95
71) Naphthalene	13.74	128	19013	1.793	ug/L	96
72) 1,2,3-Trichlorobenzene	13.98	180	9265	2.482	ug/L	91

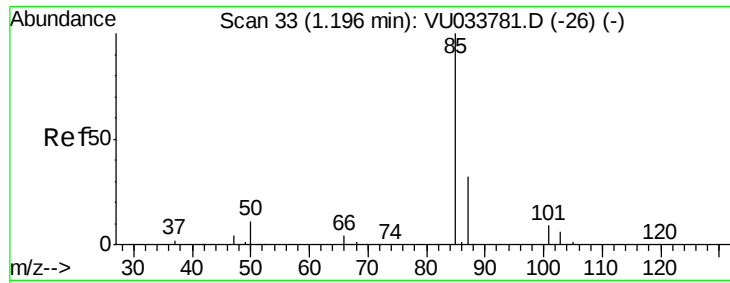
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.964 ug/L

RT: 1.20 min Scan# 33

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

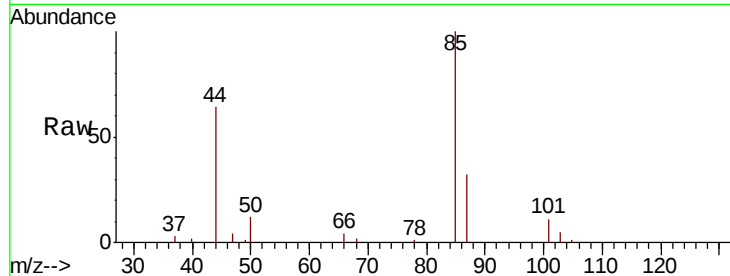
MDL07

Tgt Ion: 85 Resp: 11489

Ion Ratio Lower Upper

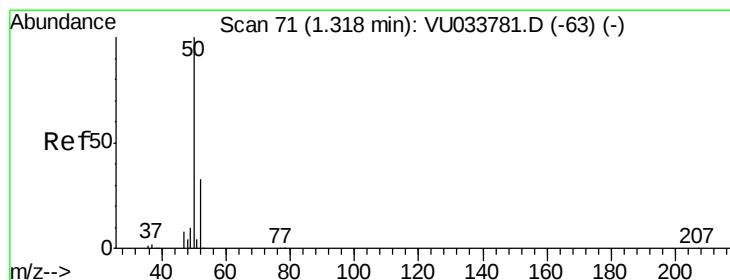
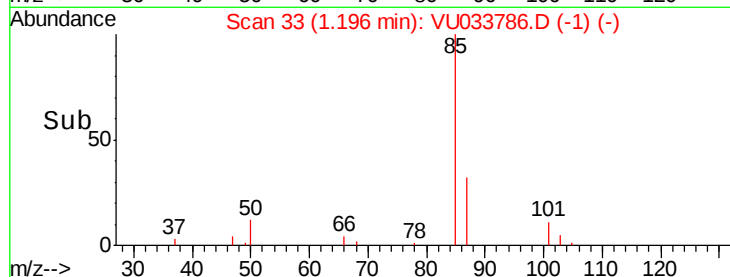
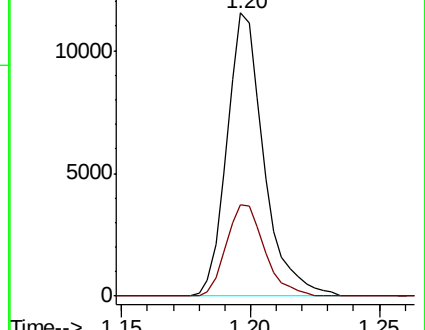
85 100

87 33.6 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VU033786.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033786.D (-26) (-)



#3

Chloromethane

Concen: 2.998 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033786.D

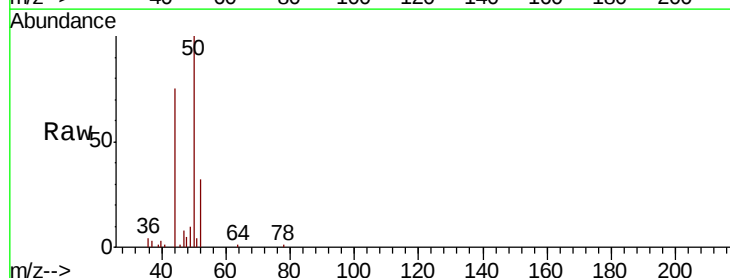
Acq: 13 Aug 2019 17:09

Tgt Ion: 50 Resp: 12066

Ion Ratio Lower Upper

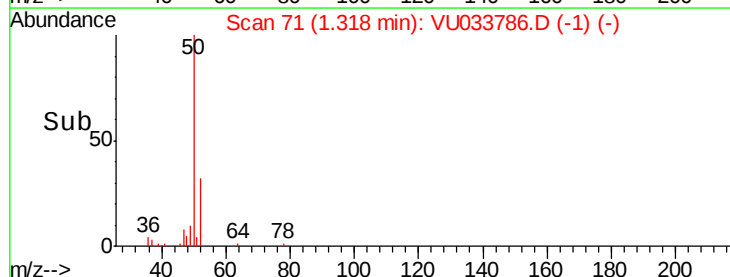
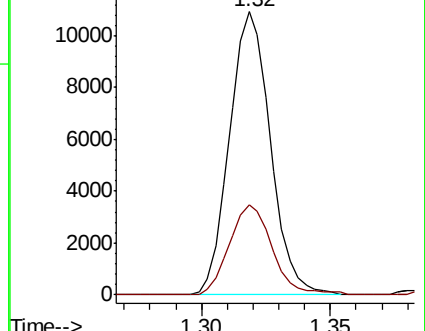
50 100

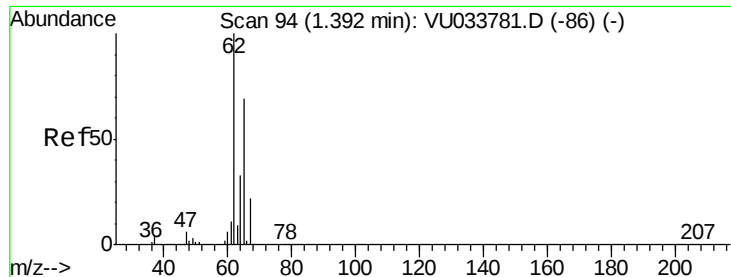
52 31.8 23.5 43.7



Abundance Ion 50.00 (49.70 to 50.70): VU033786.D (-63) (-)

Ion 52.00 (51.70 to 52.70): VU033786.D (-63) (-)





#5

Vinyl chloride

Concen: 3.130 ug/L

RT: 1.39 min Scan# 94

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

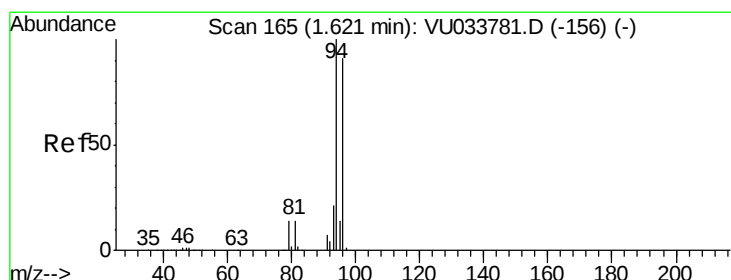
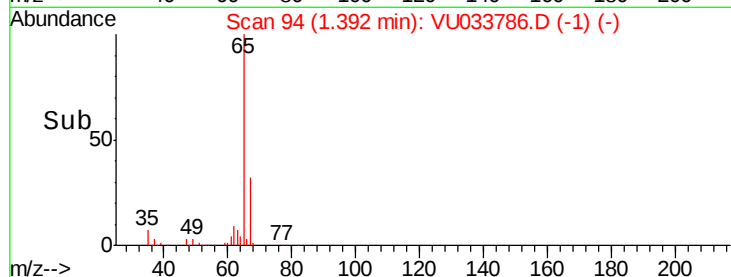
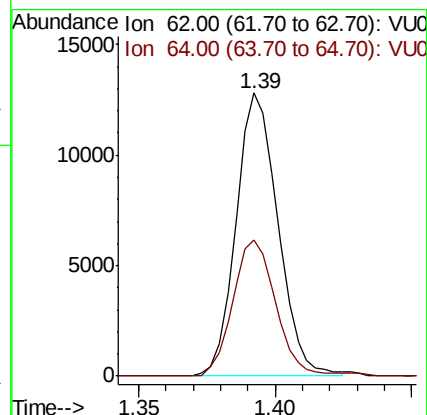
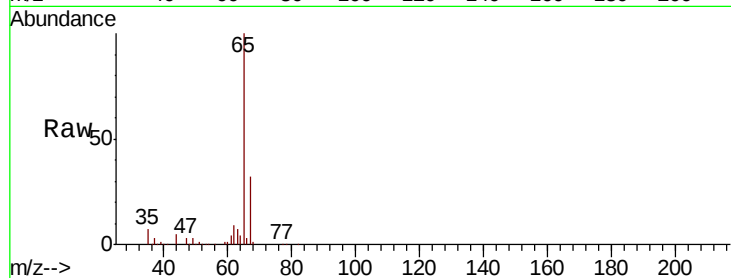
MDL07

Tgt Ion: 62 Resp: 13640

Ion Ratio Lower Upper

62 100

64 48.3 22.3 41.5#



#6

Bromomethane

Concen: 2.694 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU033786.D

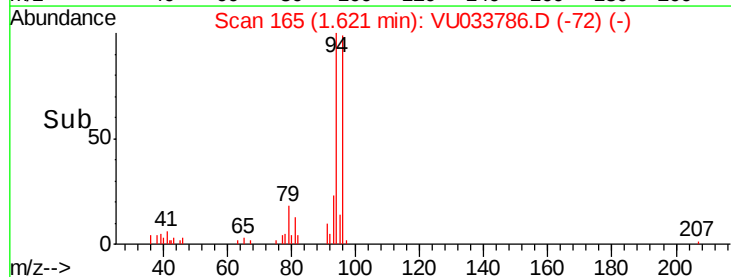
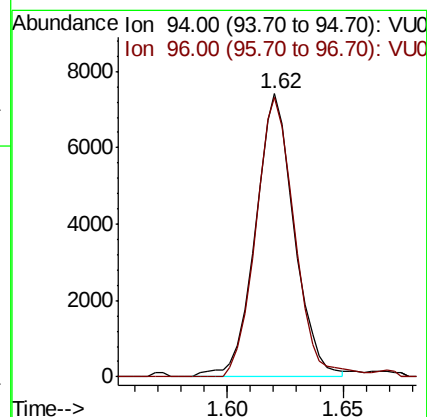
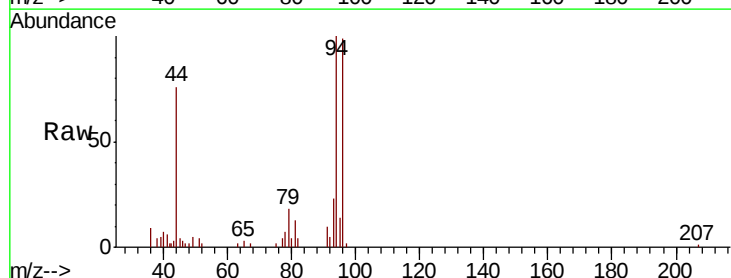
Acq: 13 Aug 2019 17:09

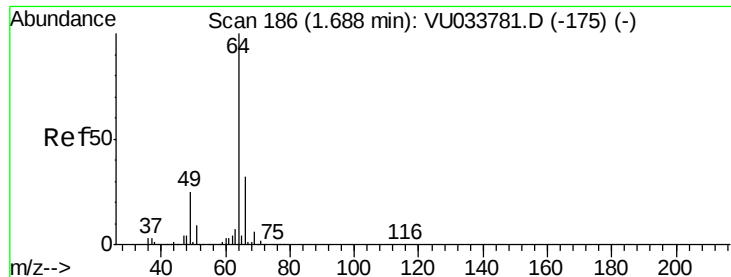
Tgt Ion: 94 Resp: 8618

Ion Ratio Lower Upper

94 100

96 98.7 64.5 119.7





#8

Chloroethane

Concen: 2.879 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

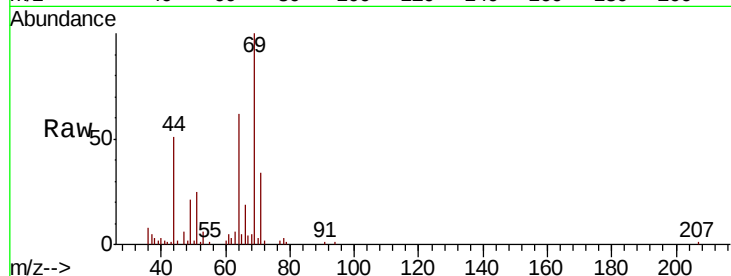
MDL07

Tgt Ion: 64 Resp: 8967

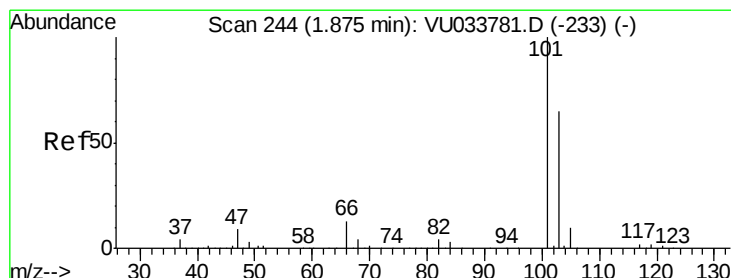
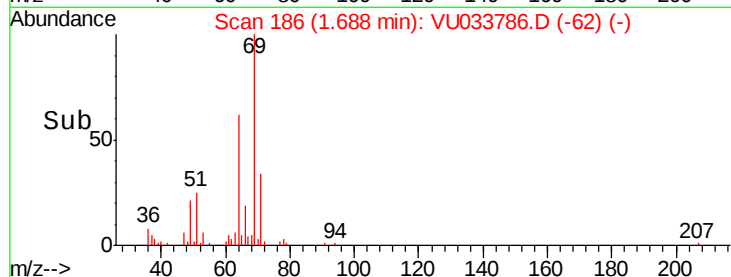
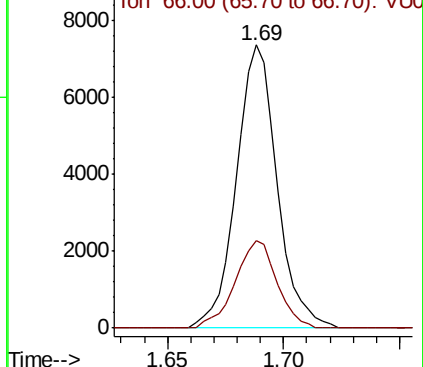
Ion Ratio Lower Upper

64 100

66 30.8 21.9 40.7



Abundance Ion 64.00 (63.70 to 64.70): VU033786.D (-175) (-)



#9

Trichlorofluoromethane

Concen: 2.951 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033786.D

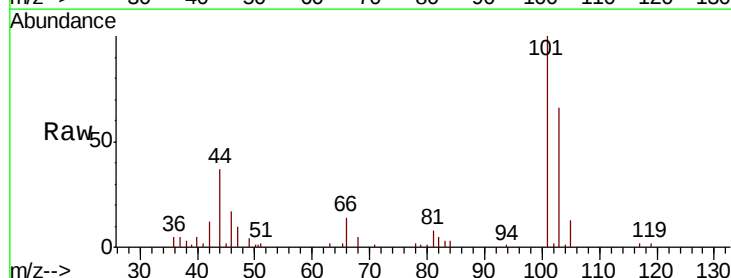
Acq: 13 Aug 2019 17:09

Tgt Ion: 101 Resp: 16525

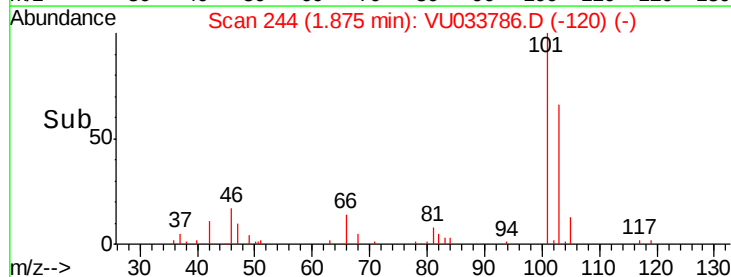
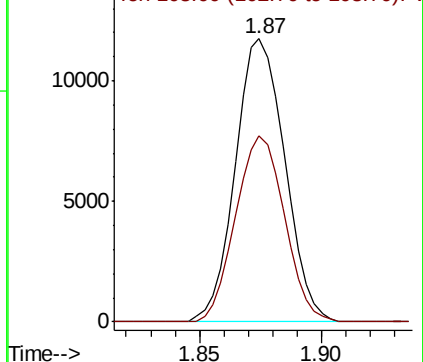
Ion Ratio Lower Upper

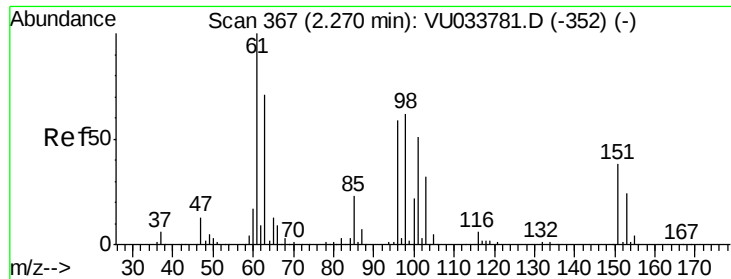
101 100

103 65.0 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU033786.D (-233) (-)





#10

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

Concen: 3.761 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

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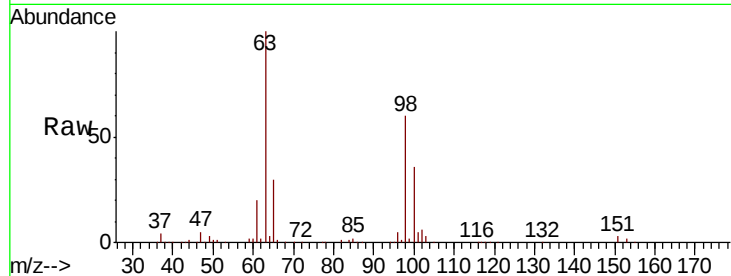
Tgt Ion: 101 Resp: 10306

Ion Ratio Lower Upper

101 100

85 36.8 35.2 52.8

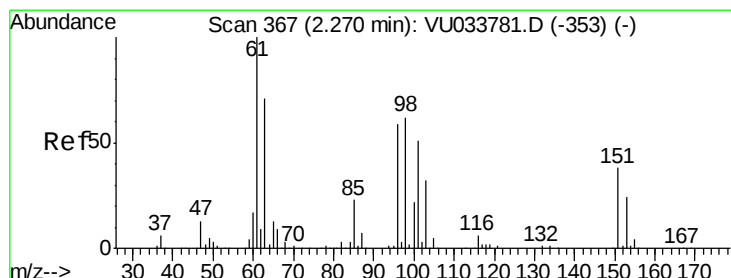
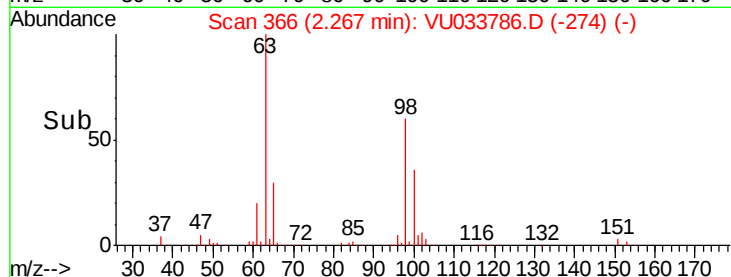
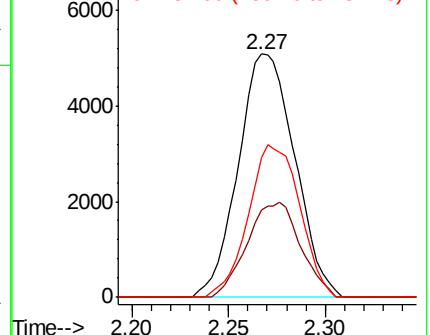
151 57.3 58.5 87.7#



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: 3.563 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

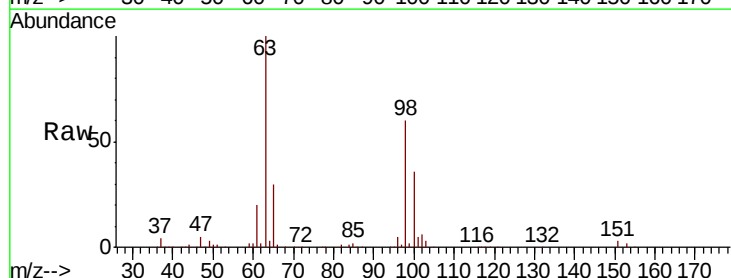
Tgt Ion: 96 Resp: 9608

Ion Ratio Lower Upper

96 100

61 368.6 121.5 225.7#

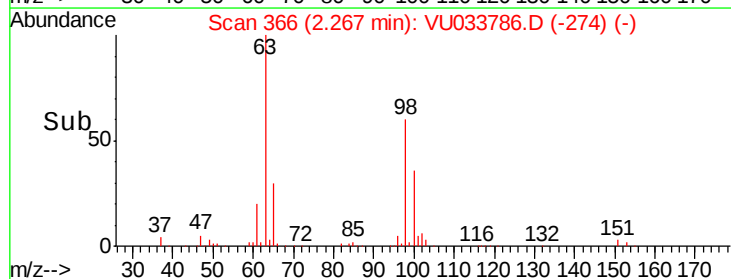
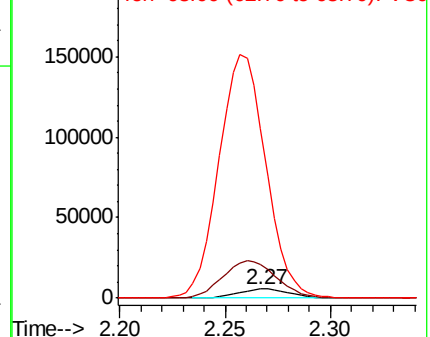
63 1879.0 92.9 172.5#

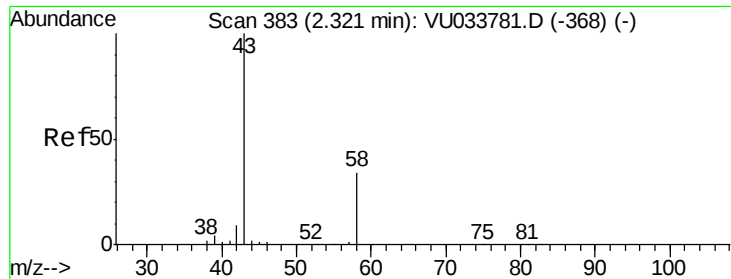


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 6.116 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

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ClientSampleId :

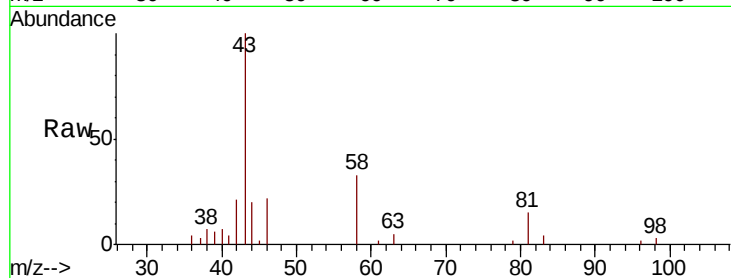
MDL07

Tgt Ion: 43 Resp: 11444

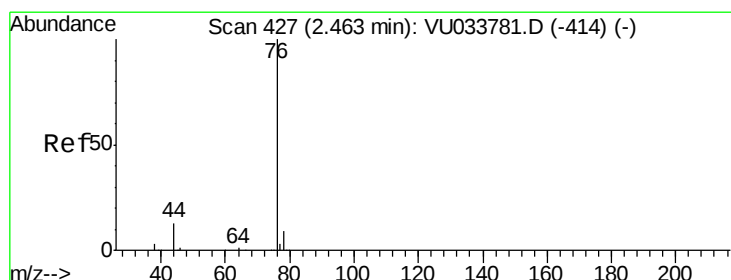
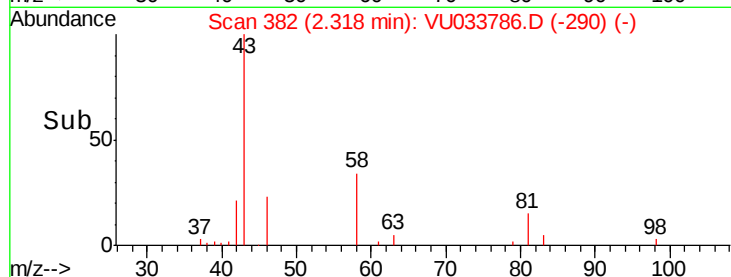
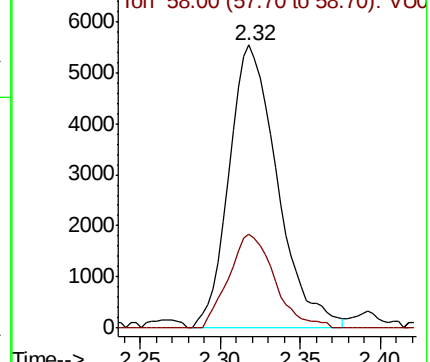
Ion Ratio Lower Upper

43 100

58 31.4 0.0 65.8



Abundance Ion 43.00 (42.70 to 43.70): VU033786.D (-290) (-)



#14

Carbon disulfide

Concen: 3.050 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033786.D

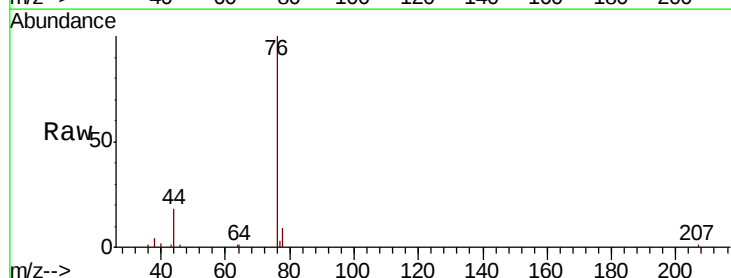
Acq: 13 Aug 2019 17:09

Tgt Ion: 76 Resp: 26035

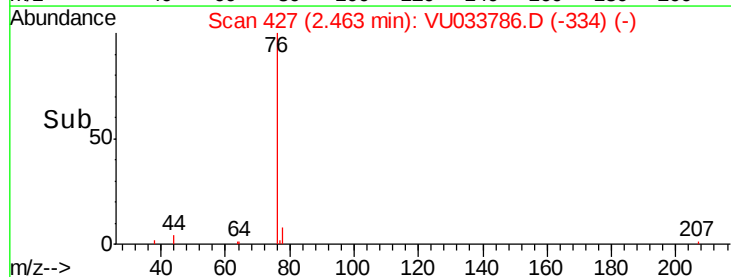
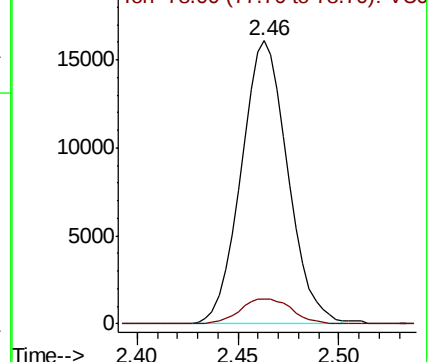
Ion Ratio Lower Upper

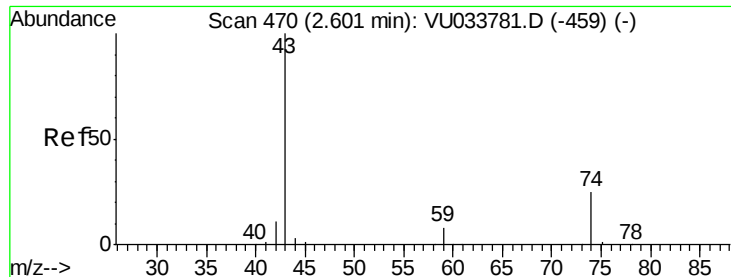
76 100

78 9.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU033786.D (-334) (-)





#15

Methyl Acetate

Concen: 2.863 ug/L

RT: 2.61 min Scan# 472

Delta R.T. 0.01 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

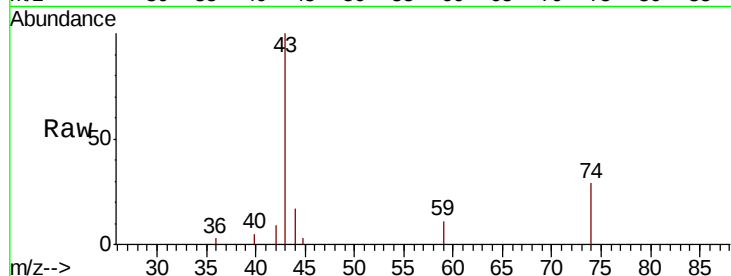
MDL07

Tgt Ion: 43 Resp: 8956

Ion Ratio Lower Upper

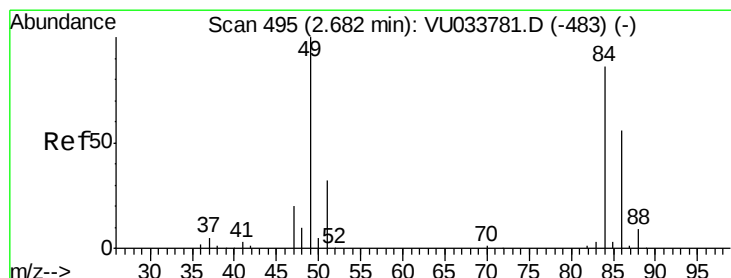
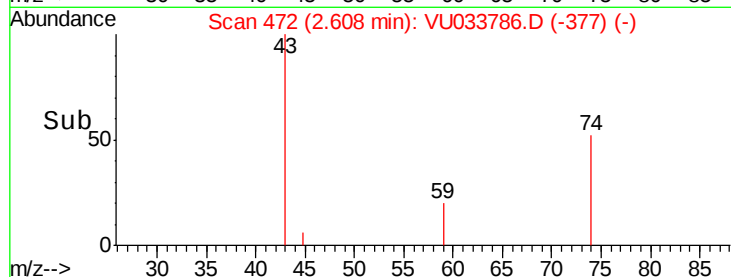
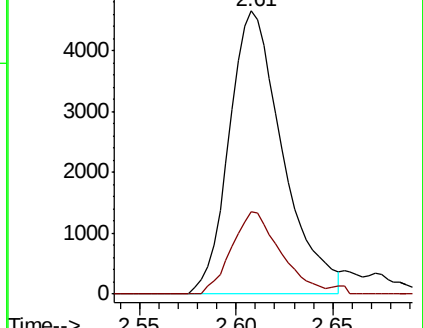
43 100

74 26.5 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VU033786.D (-377) (-)

Ion 74.00 (73.70 to 74.70): VU033786.D (-377) (-)



#16

Methylene chloride

Concen: 3.160 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

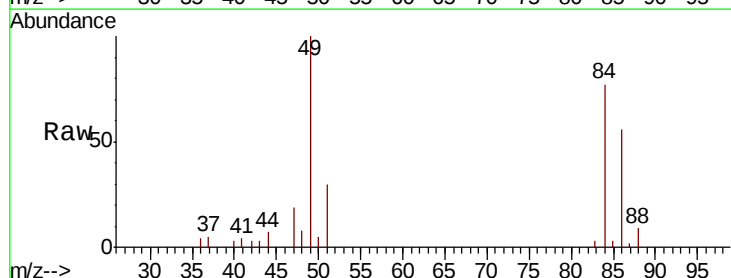
Tgt Ion: 84 Resp: 9726

Ion Ratio Lower Upper

84 100

86 73.3 45.4 84.4

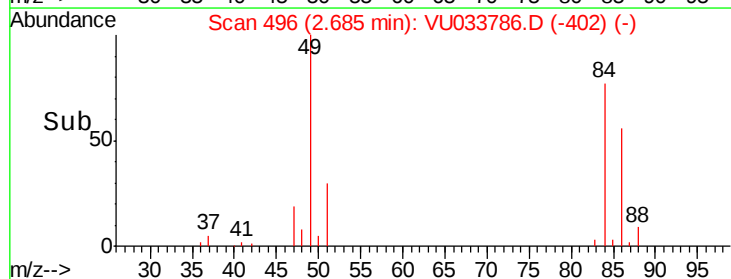
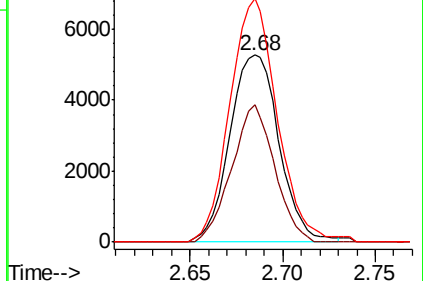
49 130.3 84.9 157.7

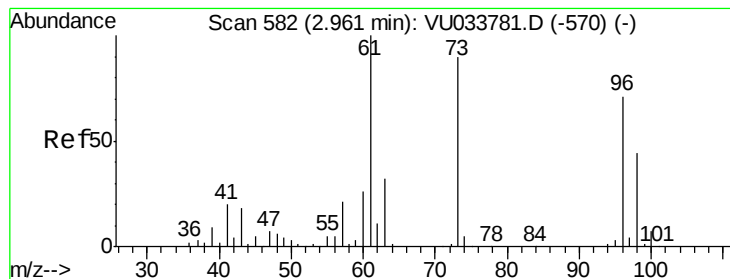


Abundance Ion 84.00 (83.70 to 84.70): VU033786.D (-402) (-)

Ion 86.00 (85.70 to 86.70): VU033786.D (-402) (-)

Ion 49.00 (48.70 to 49.70): VU033786.D (-402) (-)





#17

trans-1,2-Dichloroethene

Concen: 3.146 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

MDL07

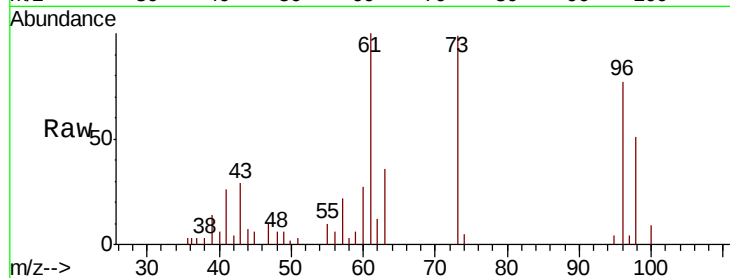
Tgt Ion: 96 Resp: 8829

Ion Ratio Lower Upper

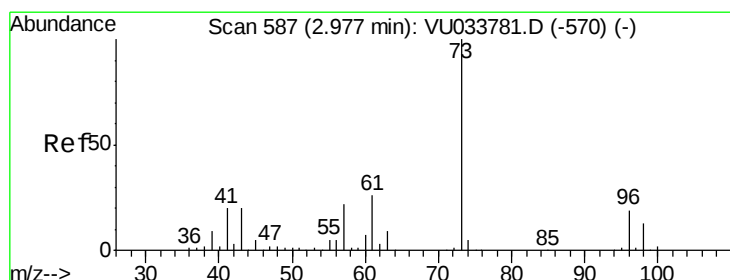
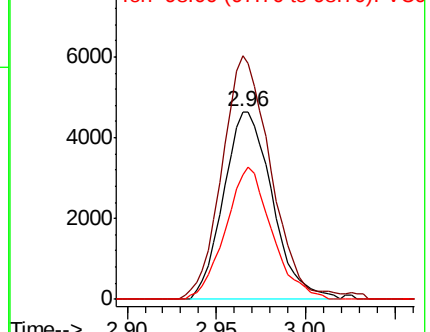
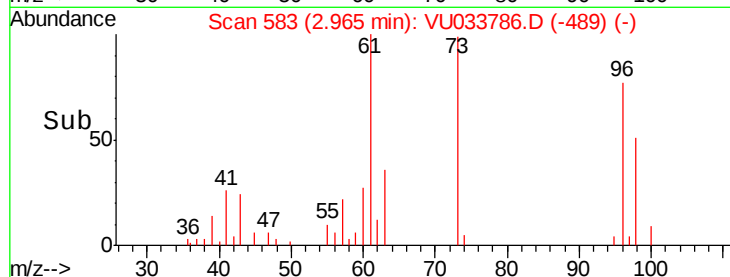
96 100

61 129.6 98.8 183.6

98 66.6 44.6 82.8



Abundance Ion 96.00 (95.70 to 96.70): VU033786.D (-489) (-)



#18

Methyl tert-butyl Ether

Concen: 2.916 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

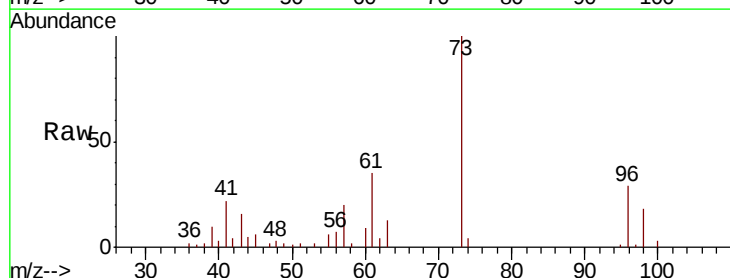
Tgt Ion: 73 Resp: 24320

Ion Ratio Lower Upper

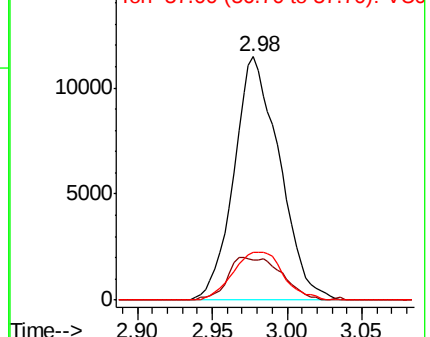
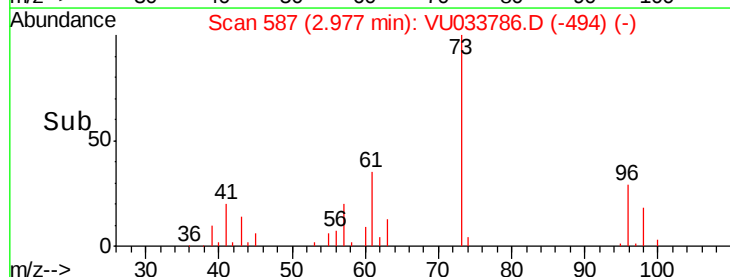
73 100

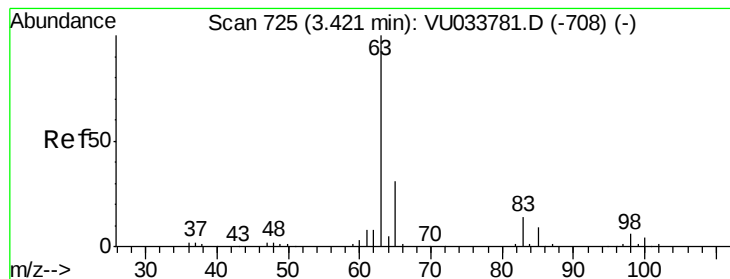
43 11.7 15.4 23.2#

57 21.8 17.9 26.9



Abundance Ion 73.00 (72.70 to 73.70): VU033786.D (-494) (-)





#19

1,1-Dichloroethane

Concen: 3.043 ug/L

RT: 3.42 min Scan# 726

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

MDL07

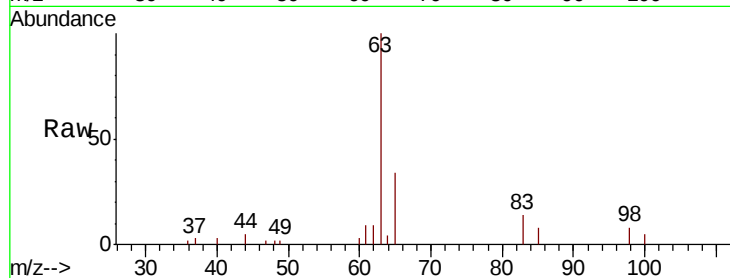
Tgt Ion: 63 Resp: 16408

Ion Ratio Lower Upper

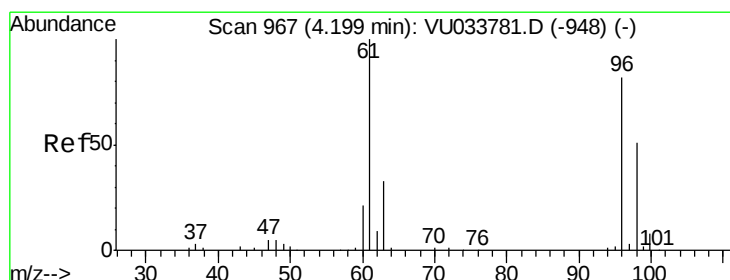
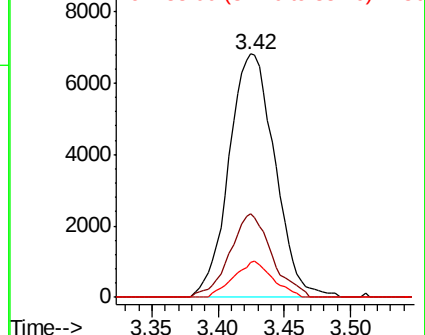
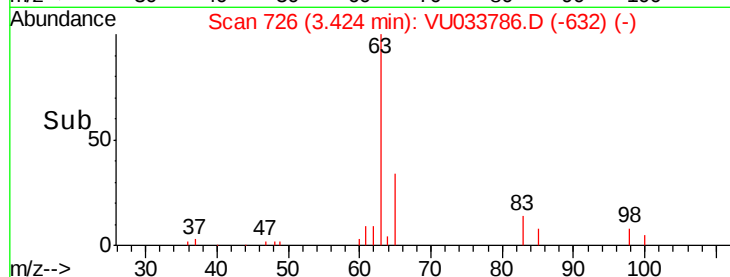
63 100

65 34.5 22.8 42.4

83 14.2 9.5 17.7



Abundance Ion 63.00 (62.70 to 63.70): VU033786.D (-632) (-)



#20

cis-1,2-Dichloroethene

Concen: 2.919 ug/L

RT: 4.20 min Scan# 968

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

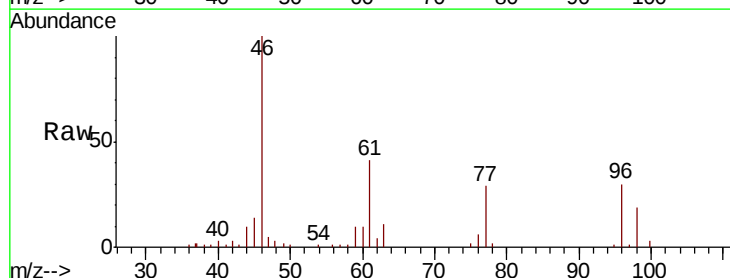
Tgt Ion: 96 Resp: 8994

Ion Ratio Lower Upper

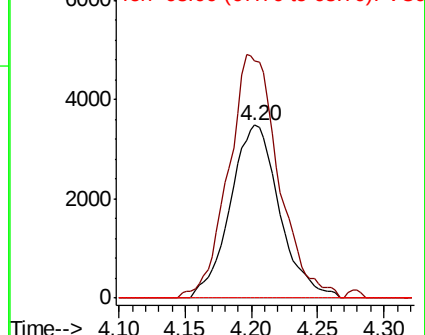
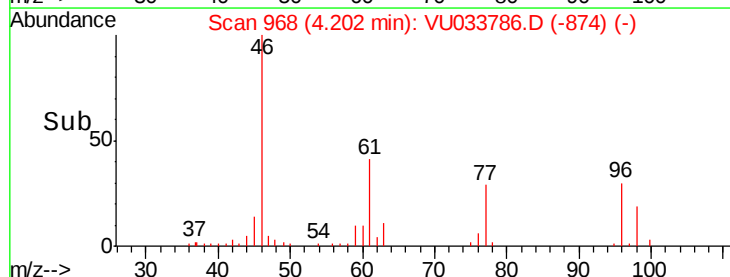
96 100

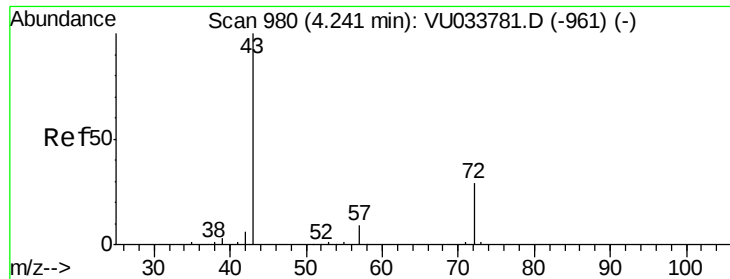
61 137.2 88.3 163.9

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU033786.D (-874) (-)





#22

2-Butanone

Concen: 3.773 ug/L

RT: 4.25 min Scan# 984

Delta R.T. 0.01 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

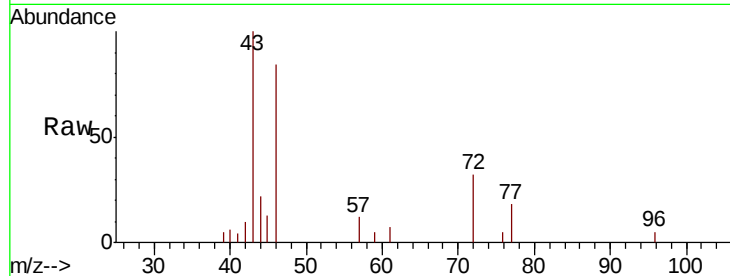
MDL07

Tgt Ion: 43 Resp: 8576

Ion Ratio Lower Upper

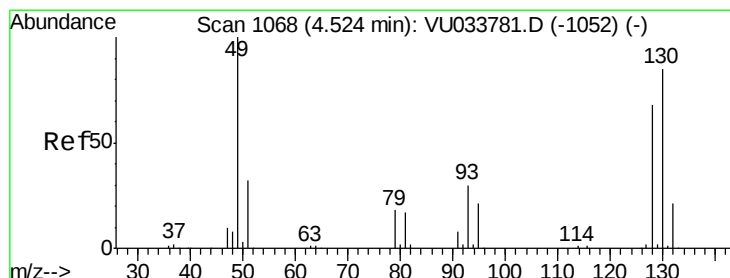
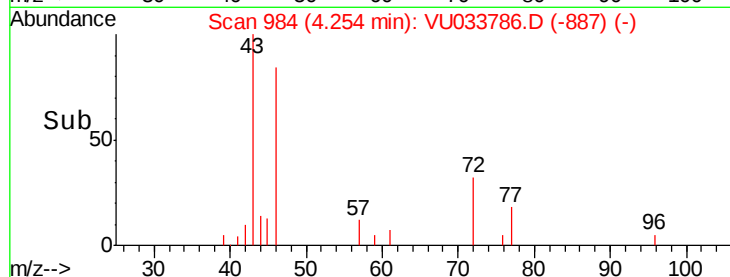
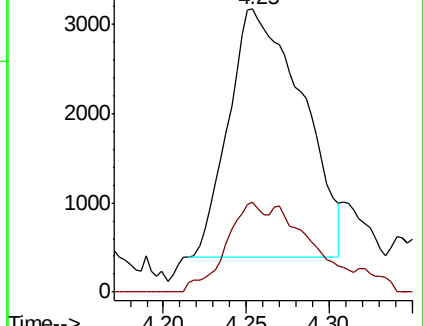
43 100

72 18.1 14.5 43.5



Abundance Ion 43.00 (42.70 to 43.70): VU033786.D (-984) (-)

Ion 72.00 (71.70 to 72.70): VU033786.D (-984) (-)



#23

Bromochloromethane

Concen: 3.102 ug/L

RT: 4.53 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Tgt Ion: 128 Resp: 4952

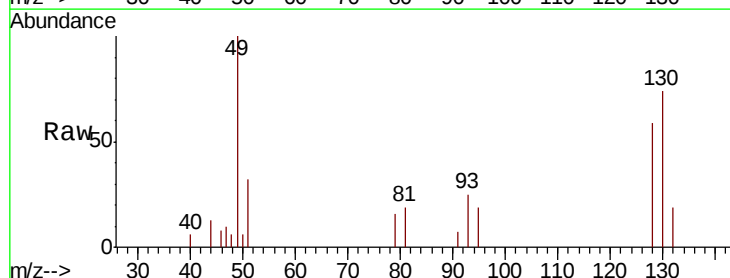
Ion Ratio Lower Upper

128 100

49 168.1 108.1 200.7

130 124.7 91.8 170.6

51 53.7 40.6 61.0

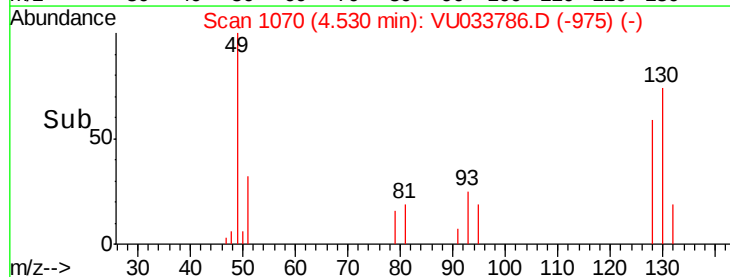
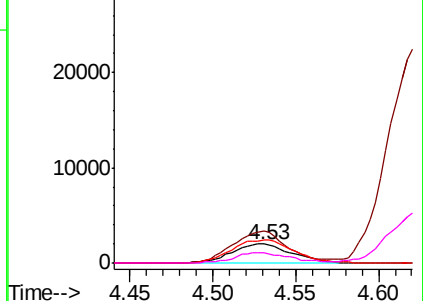


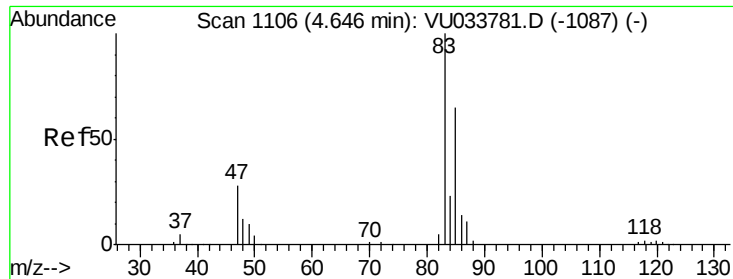
Abundance Ion 128.00 (127.70 to 128.70): VU033786.D (-1070) (-)

Ion 49.00 (48.70 to 49.70): VU033786.D (-1070) (-)

Ion 130.00 (129.70 to 130.70): VU033786.D (-1070) (-)

Ion 51.00 (50.70 to 51.70): VU033786.D (-1070) (-)

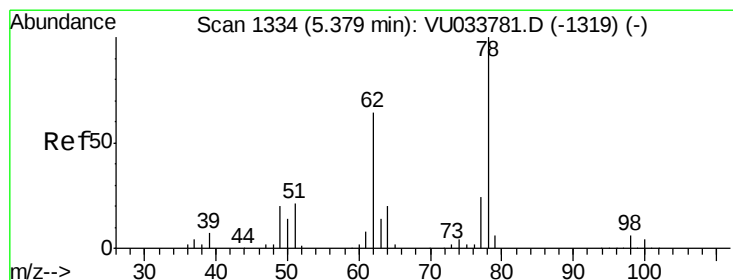
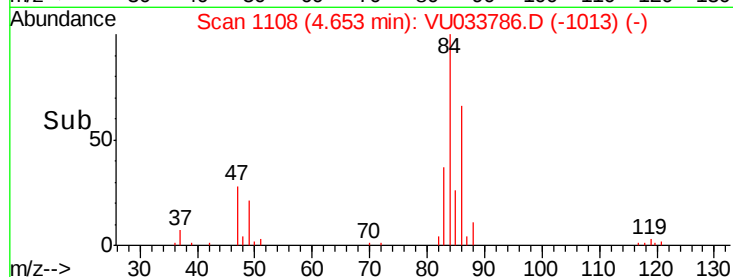
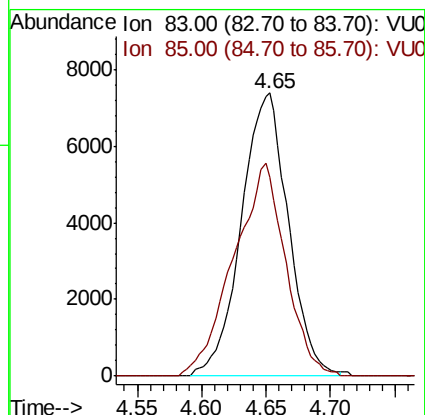
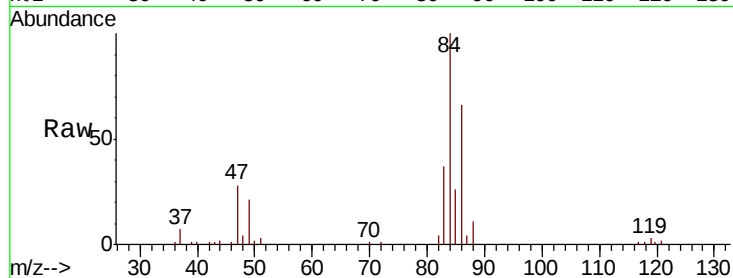




#25
Chloroform
Concen: 3.350 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. 0.01 min
Lab File: VU033786.D
Acq: 13 Aug 2019 17:09

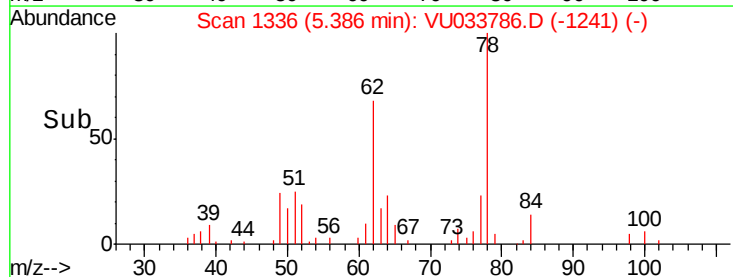
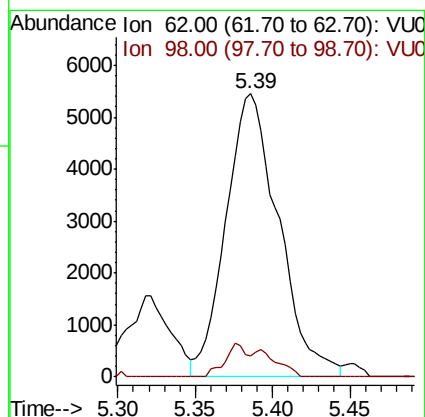
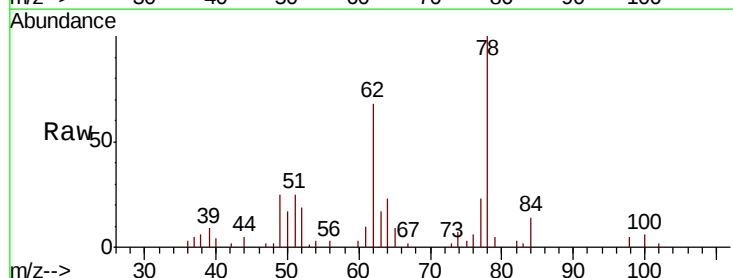
Instrument :
MSVOA_U
ClientSampleId :
MDL07

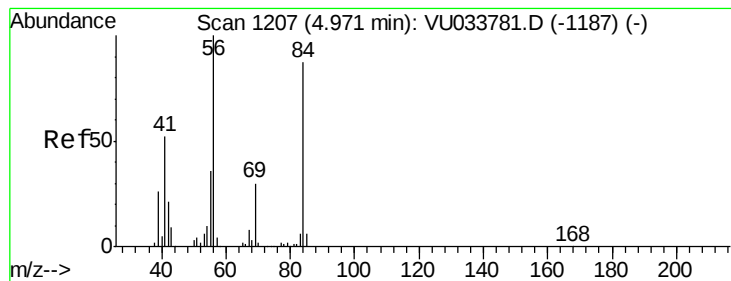
Tgt Ion: 83 Resp: 18772
Ion Ratio Lower Upper
83 100
85 70.4 45.6 84.6



#27
1,2-Dichloroethane
Concen: 2.961 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.01 min
Lab File: VU033786.D
Acq: 13 Aug 2019 17:09

Tgt Ion: 62 Resp: 12889
Ion Ratio Lower Upper
62 100
98 7.4 7.4 11.0





#29

Cyclohexane

Concen: 2.746 ug/L

RT: 4.97 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampled :

MDL07

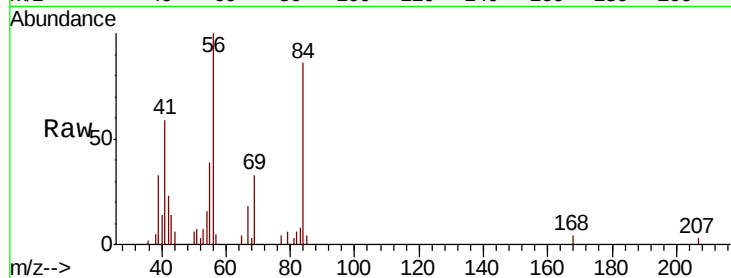
Tgt Ion: 56 Resp: 11647

Ion Ratio Lower Upper

56 100

69 30.1 25.0 37.4

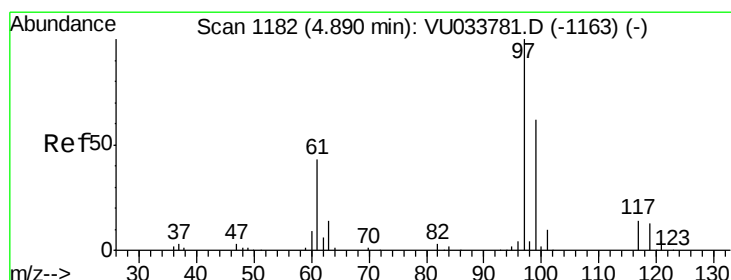
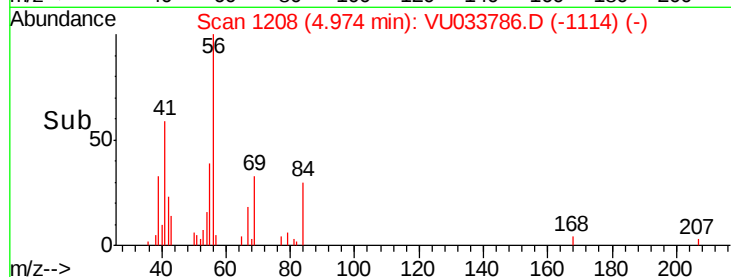
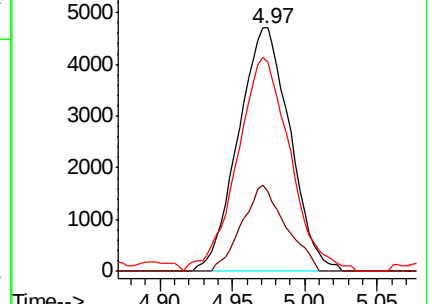
84 89.4 70.3 105.5



Abundance Ion 56.00 (55.70 to 56.70): VU033786.D (-1187) (-)

Ion 69.00 (68.70 to 69.70): VU033786.D (-1187) (-)

Ion 84.00 (83.70 to 84.70): VU033786.D (-1187) (-)



#30

1,1,1-Trichloroethane

Concen: 2.990 ug/L

RT: 4.89 min Scan# 1183

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

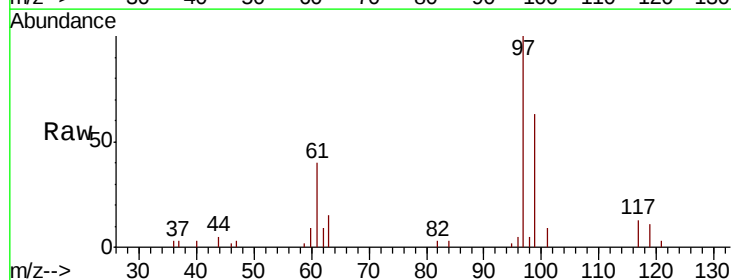
Tgt Ion: 97 Resp: 14154

Ion Ratio Lower Upper

97 100

99 61.7 50.9 76.3

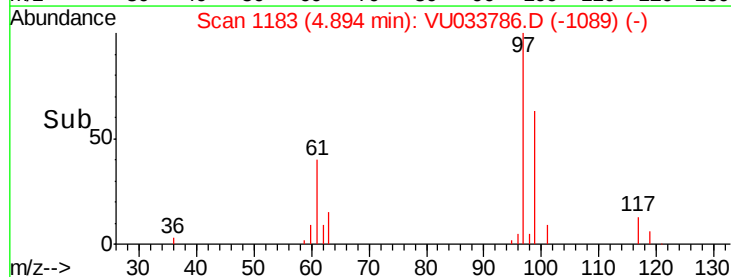
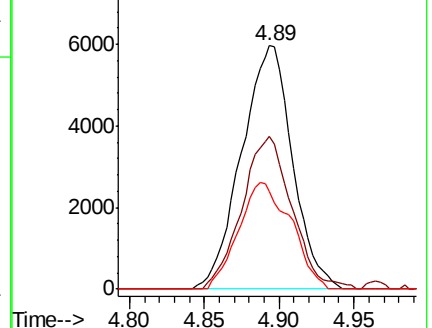
61 44.9 36.6 54.8

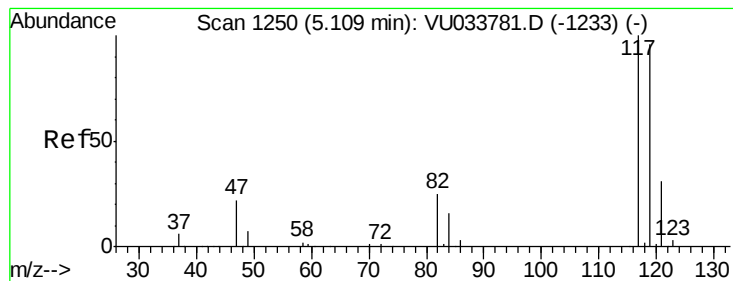


Abundance Ion 97.00 (96.70 to 97.70): VU033786.D (-1089) (-)

Ion 99.00 (98.70 to 99.70): VU033786.D (-1089) (-)

Ion 61.05 (60.75 to 61.75): VU033786.D (-1089) (-)





#31

Carbon tetrachloride

Concen: 3.026 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

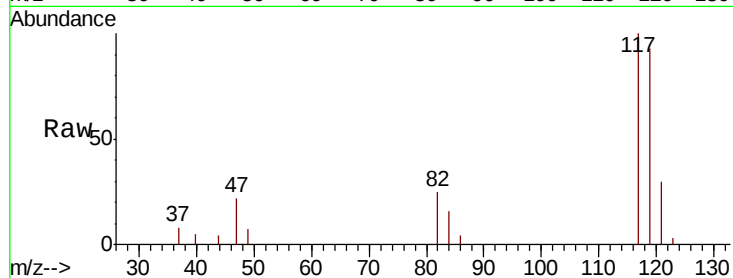
MDL07

Tgt Ion:117 Resp: 12721

Ion Ratio Lower Upper

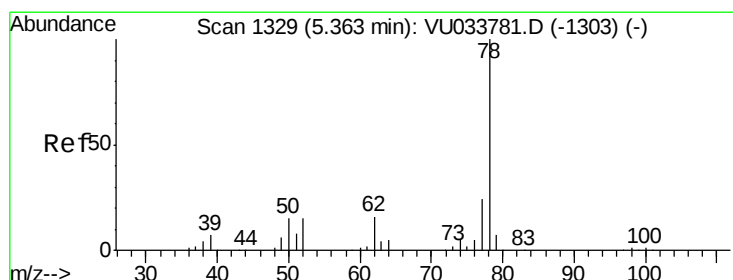
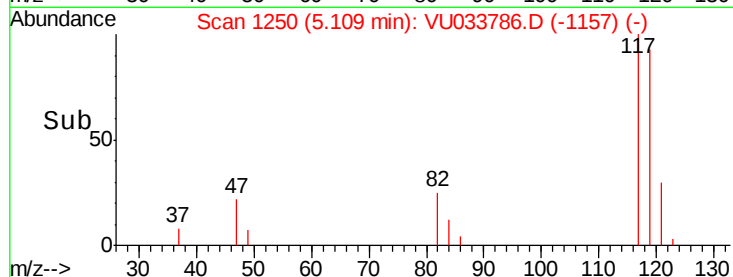
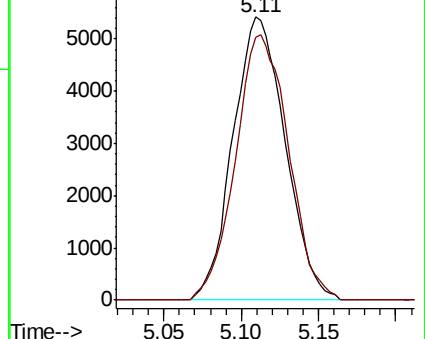
117 100

119 95.1 77.5 116.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.946 ug/L

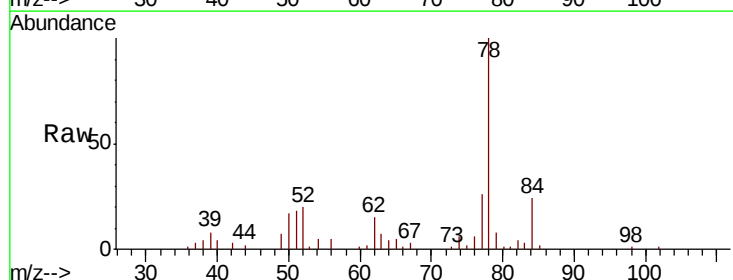
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

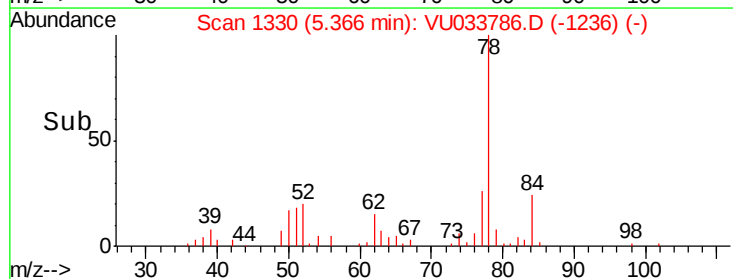
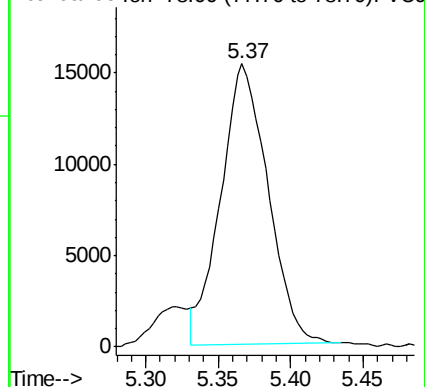
Lab File: VU033786.D

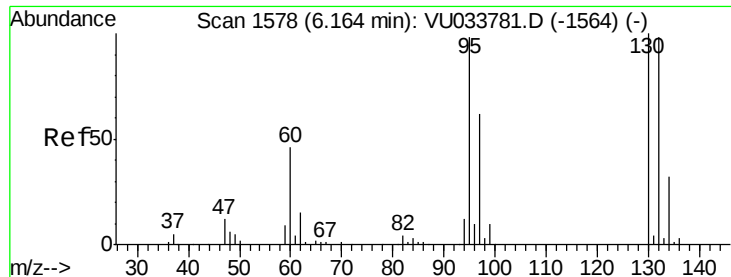
Acq: 13 Aug 2019 17:09

Tgt Ion: 78 Resp: 34775



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 2.996 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tgt Ion: 95 Resp: 9372

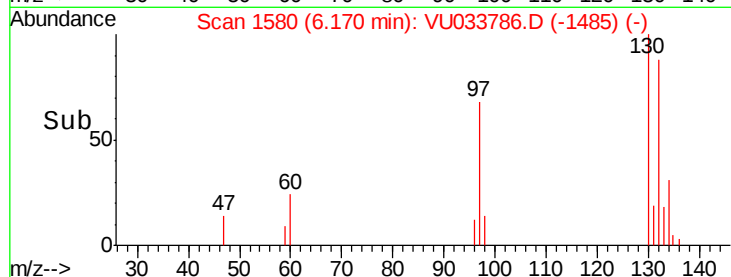
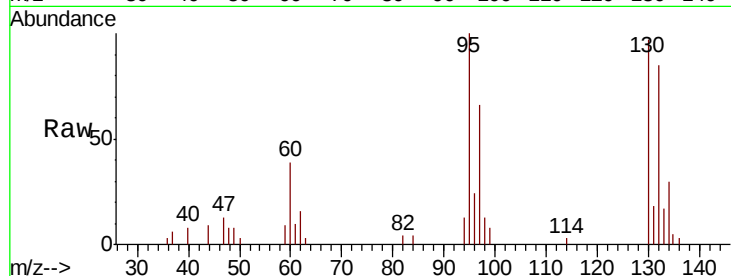
Ion Ratio Lower Upper

95 100

97 66.1 45.1 83.7

132 85.3 67.9 126.1

130 96.8 71.6 133.0

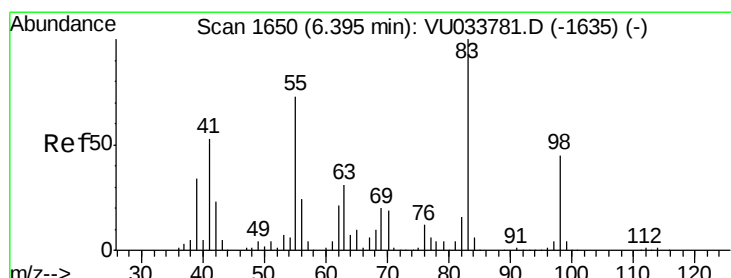
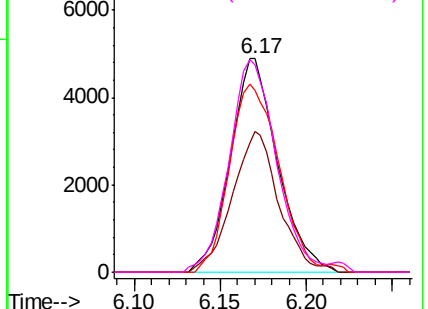


Abundance Ion 95.00 (94.70 to 95.70): VU033786.D (-1485) (-)

Ion 97.00 (96.70 to 97.70): VU033786.D (-1485) (-)

Ion 132.00 (131.70 to 132.70): VU033786.D (-1485) (-)

Ion 130.00 (129.70 to 130.70): VU033786.D (-1485) (-)



#35

Methylcyclohexane

Concen: 2.824 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

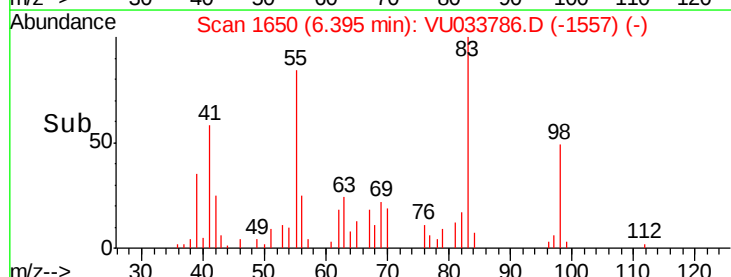
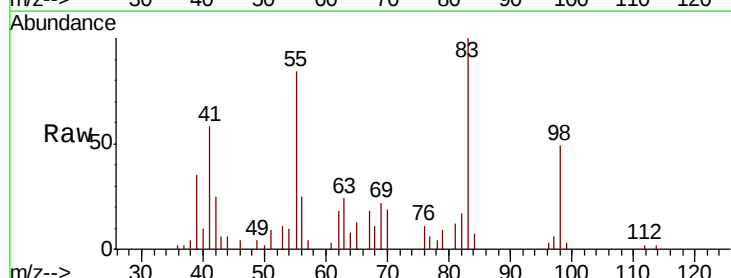
Tgt Ion: 83 Resp: 12872

Ion Ratio Lower Upper

83 100

55 77.3 62.2 93.4

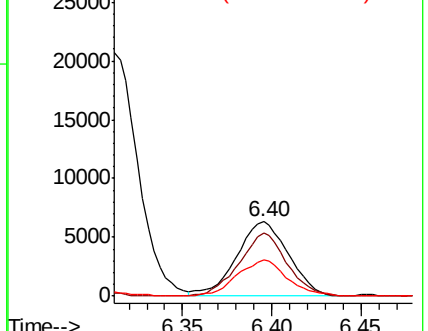
98 46.9 35.8 53.8

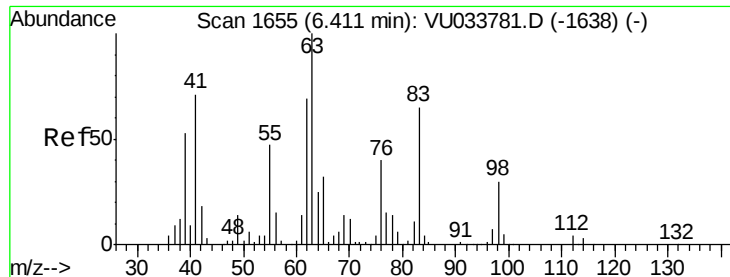


Abundance Ion 83.00 (82.70 to 83.70): VU033786.D (-1557) (-)

Ion 55.00 (54.70 to 55.70): VU033786.D (-1557) (-)

Ion 98.00 (97.70 to 98.70): VU033786.D (-1557) (-)

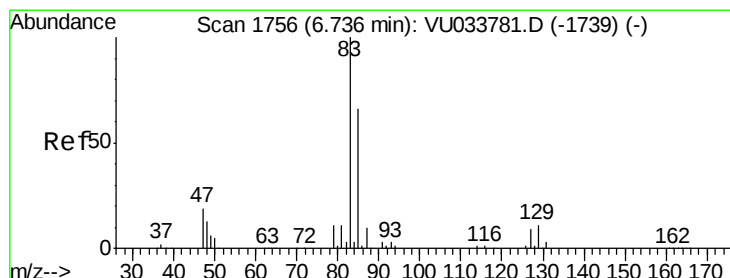
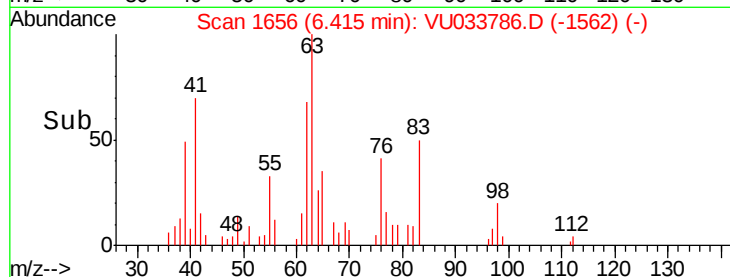
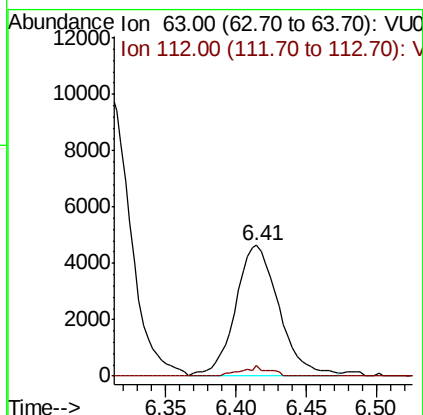
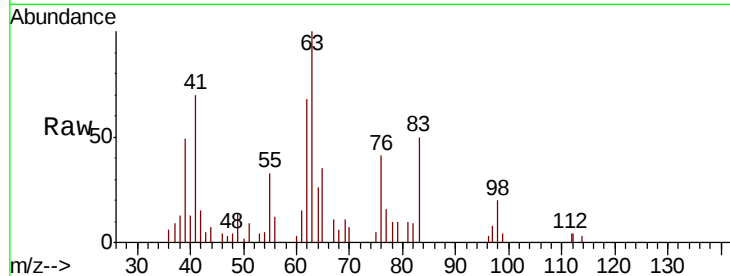




#37
 1,2-Dichloropropane
 Concen: 3.126 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU033786.D
 Acq: 13 Aug 2019 17:09

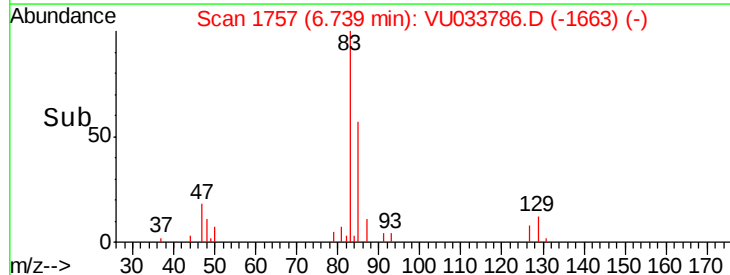
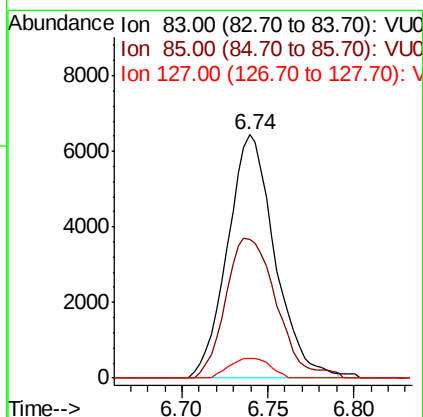
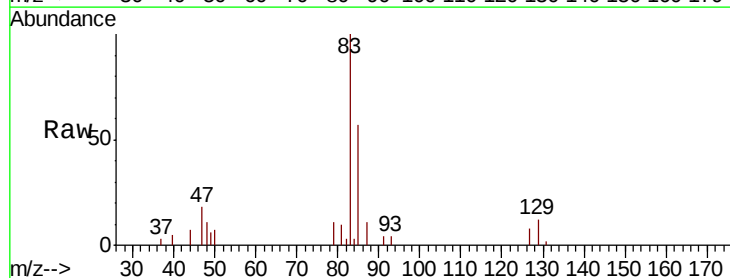
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

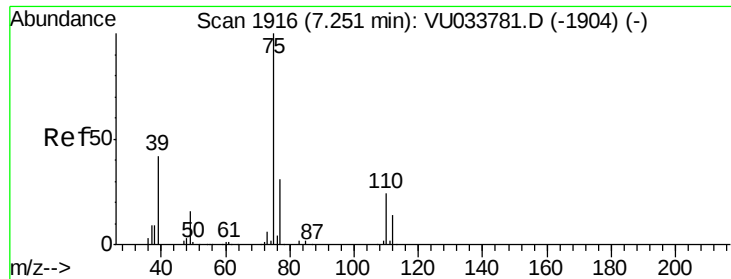
Tgt Ion: 63 Resp: 10057
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.0 4.6



#38
 Bromodichloromethane
 Concen: 2.958 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033786.D
 Acq: 13 Aug 2019 17:09

Tgt Ion: 83 Resp: 12277
 Ion Ratio Lower Upper
 83 100
 85 57.2 45.8 85.0
 127 8.1 7.4 11.0

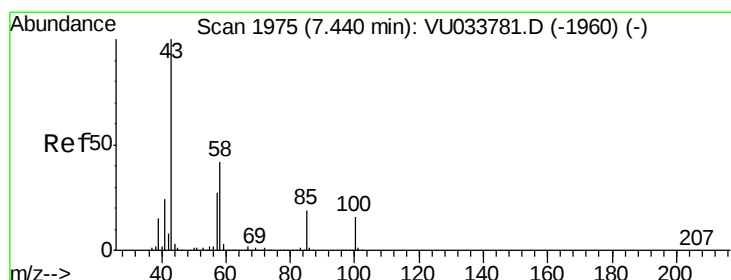
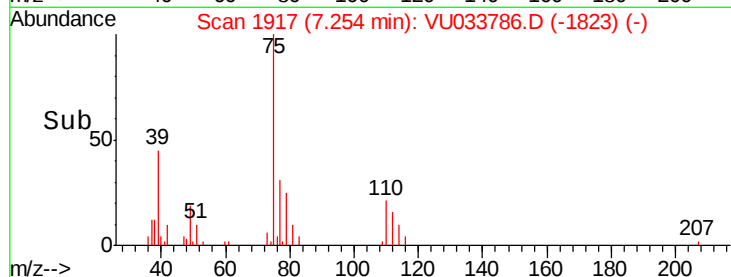
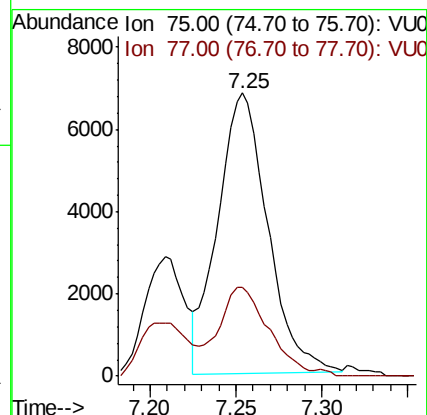
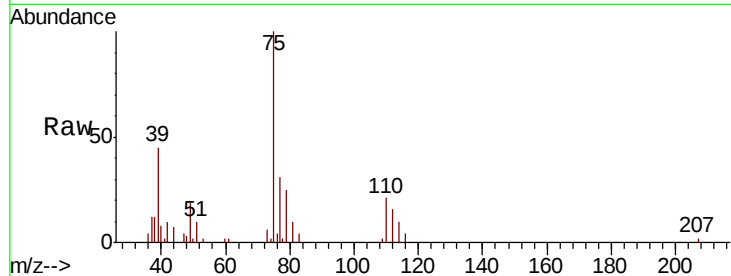




#39
 cis-1,3-Dichloropropene
 Concen: 2.907 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033786.D
 Acq: 13 Aug 2019 17:09

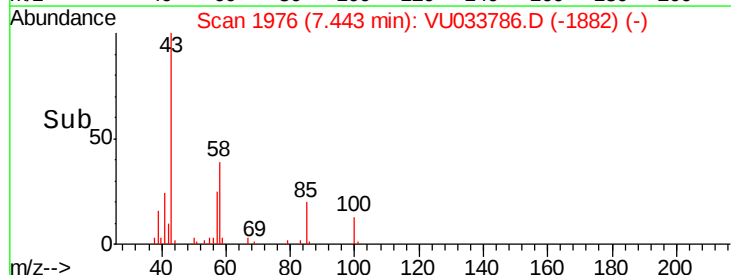
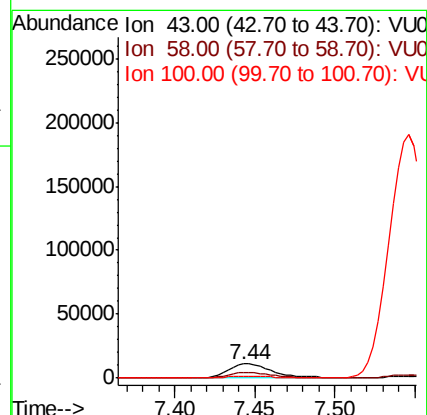
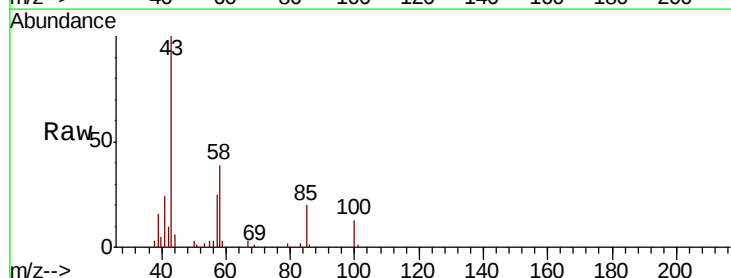
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

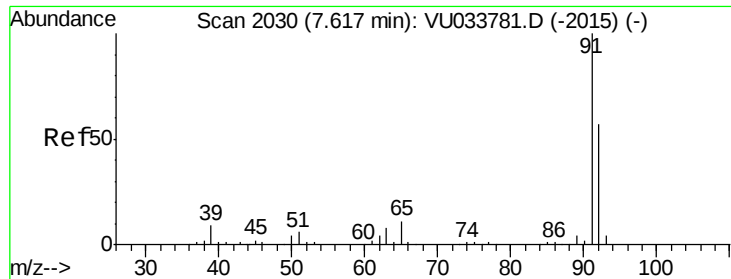
Tgt Ion: 75 Resp: 13806
 Ion Ratio Lower Upper
 75 100
 77 31.4 22.0 40.8



#40
 4-Methyl-2-pentanone
 Concen: 5.382 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033786.D
 Acq: 13 Aug 2019 17:09

Tgt Ion: 43 Resp: 21543
 Ion Ratio Lower Upper
 43 100
 58 40.2 32.5 48.7
 100 14.0 12.2 18.2





#42

Toluene

Concen: 2.935 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

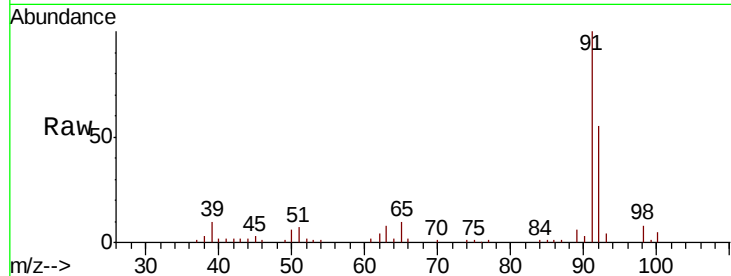
MDL07

Tgt Ion: 91 Resp: 36592

Ion Ratio Lower Upper

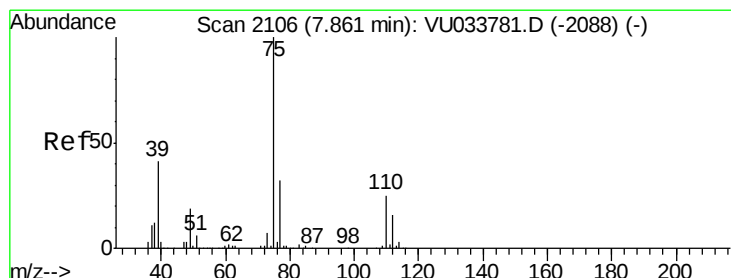
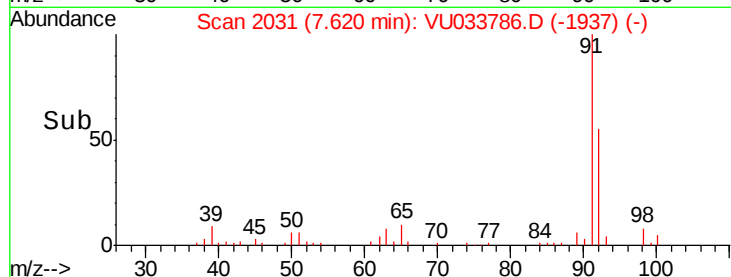
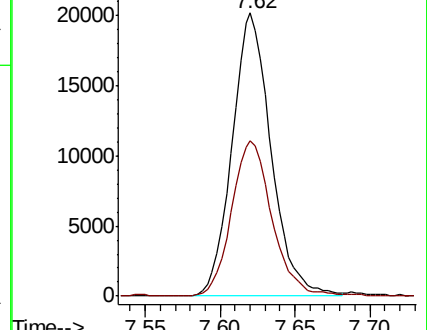
91 100

92 54.8 40.0 74.2



Abundance Ion 91.00 (90.70 to 91.70): VU033786.D (-2015) (-)

Ion 92.00 (91.70 to 92.70): VU033786.D (-2015) (-)



#44

trans-1,3-Dichloropropene

Concen: 2.958 ug/L

RT: 7.87 min Scan# 2108

Delta R.T. 0.01 min

Lab File: VU033786.D

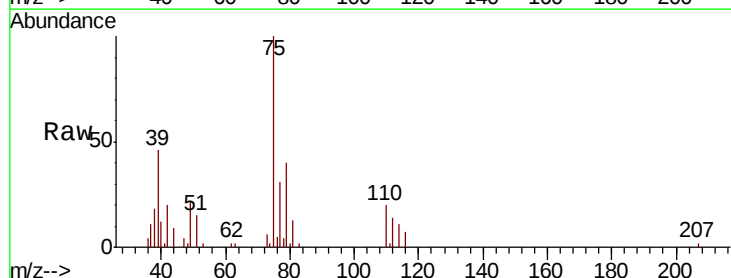
Acq: 13 Aug 2019 17:09

Tgt Ion: 75 Resp: 12793

Ion Ratio Lower Upper

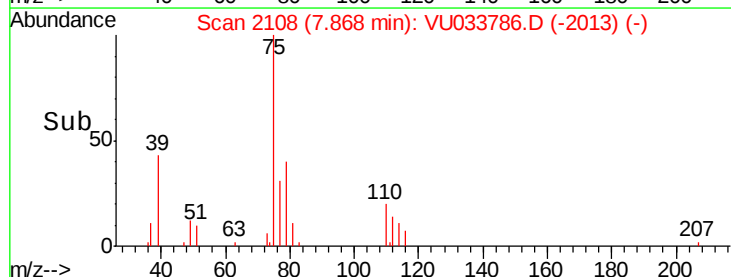
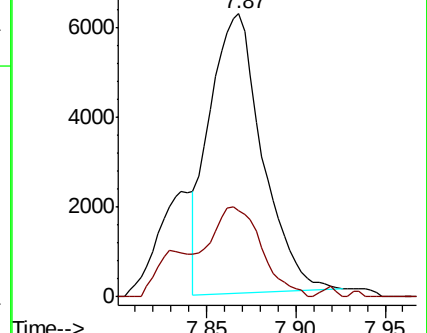
75 100

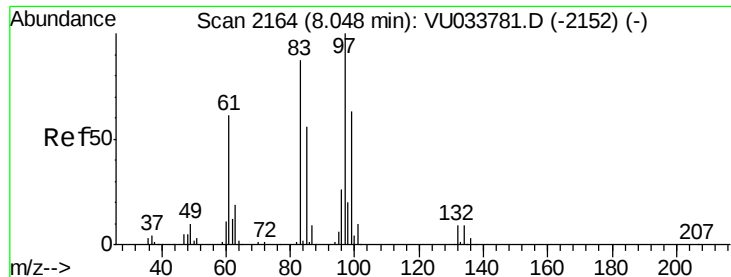
77 30.6 22.7 42.3



Abundance Ion 75.00 (74.70 to 75.70): VU033786.D (-2013) (-)

Ion 77.00 (76.70 to 77.70): VU033786.D (-2013) (-)

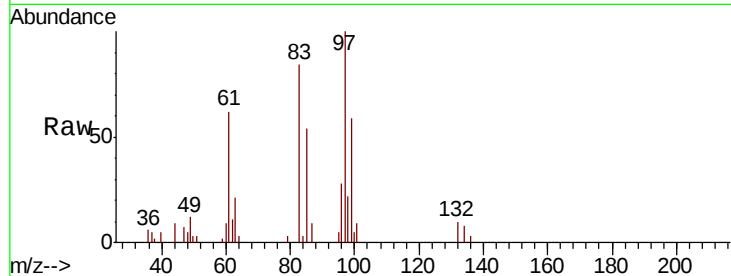




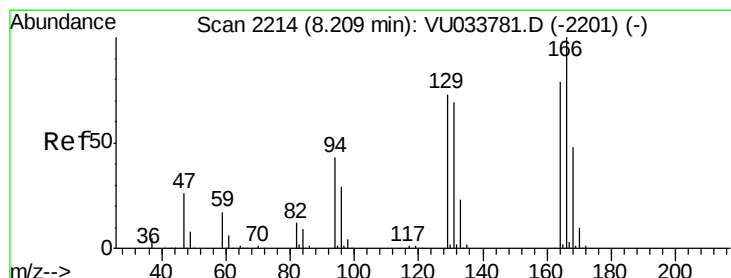
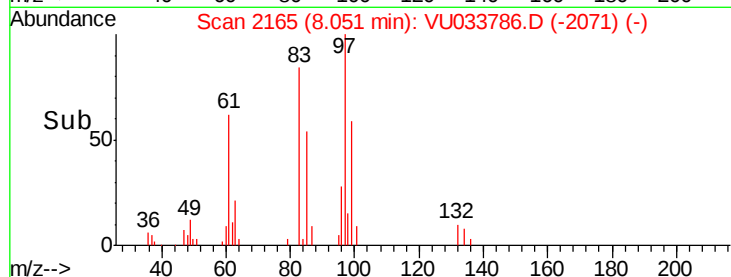
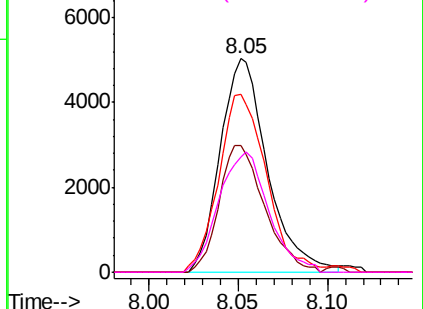
#45
 1,1,2-Trichloroethane
 Concen: 3.053 ug/L
 RT: 8.05 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VU033786.D
 Acq: 13 Aug 2019 17:09

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tgt Ion:	97	Resp:	9269
Ion	Ratio	Lower	Upper
97	100		
99	59.2	43.5	80.9
83	83.6	61.8	114.8
85	53.9	39.1	72.7

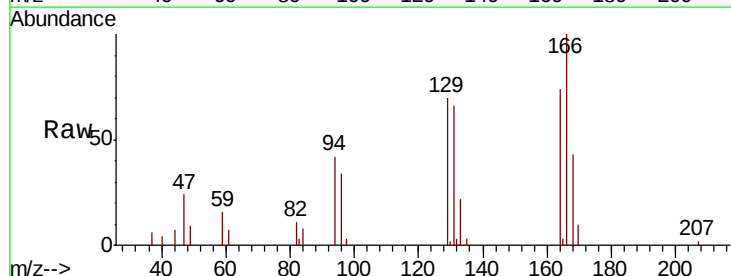


Abundance Ion 97.00 (96.70 to 97.70): VU033786.D (-2164) (-)

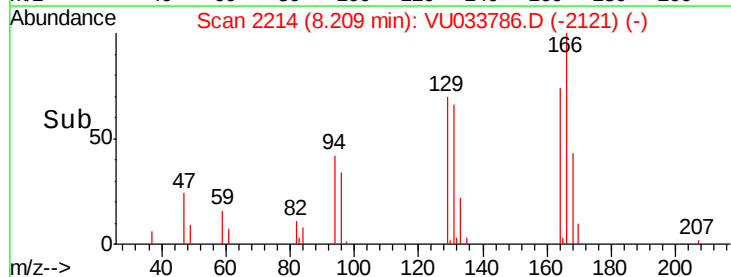
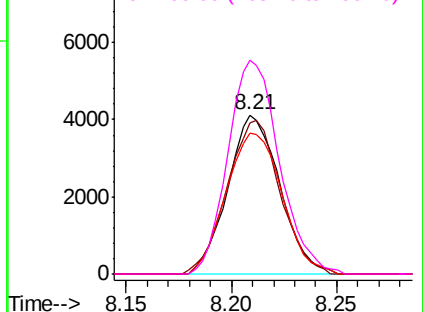


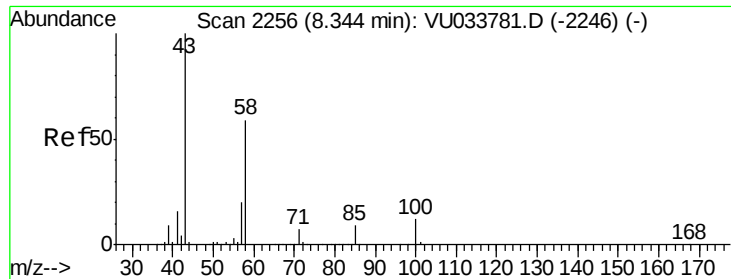
#46
 Tetrachloroethene
 Concen: 2.874 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. 0.00 min
 Lab File: VU033786.D
 Acq: 13 Aug 2019 17:09

Tgt Ion:	164	Resp:	7049
Ion	Ratio	Lower	Upper
164	100		
129	94.8	65.5	121.6
131	88.7	64.0	119.0
166	134.5	89.4	166.0



Abundance Ion 164.00 (163.70 to 164.70): VU033786.D (-2214) (-)

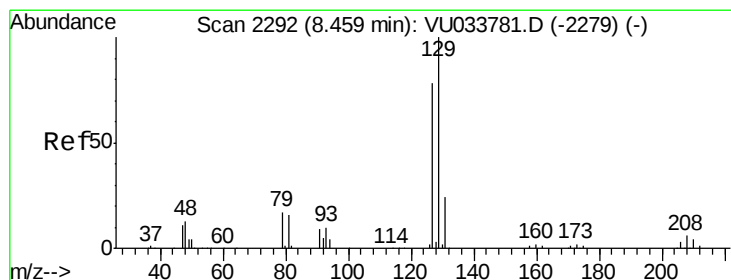
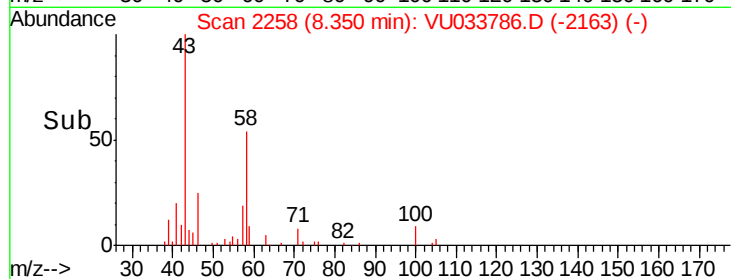
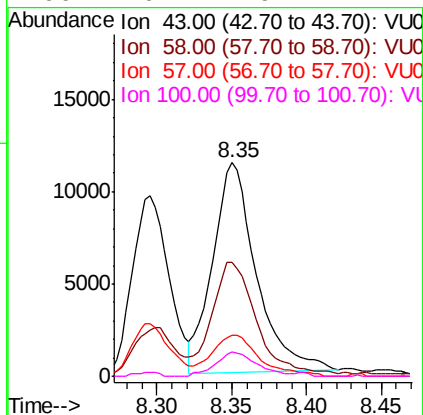
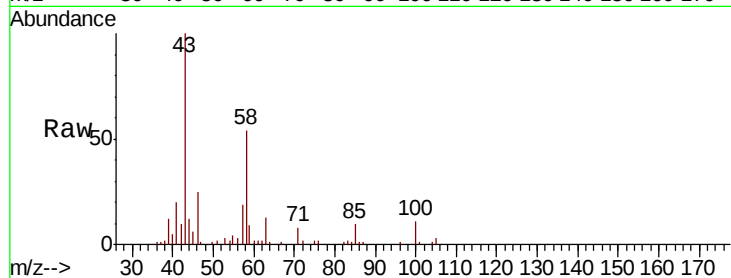




#48
2-Hexanone
Concen: 7.534 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033786.D
Acq: 13 Aug 2019 17:09

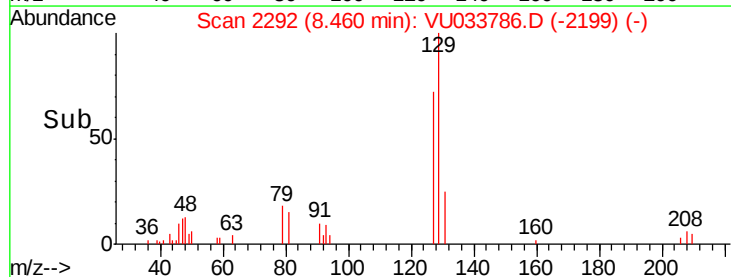
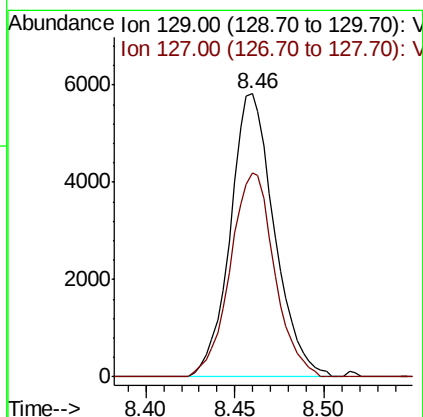
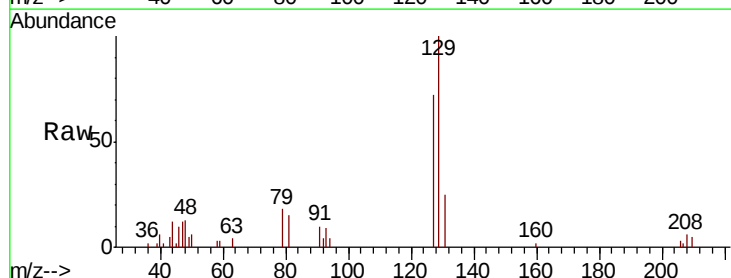
Instrument :
MSVOA_U
ClientSampleId :
MDL07

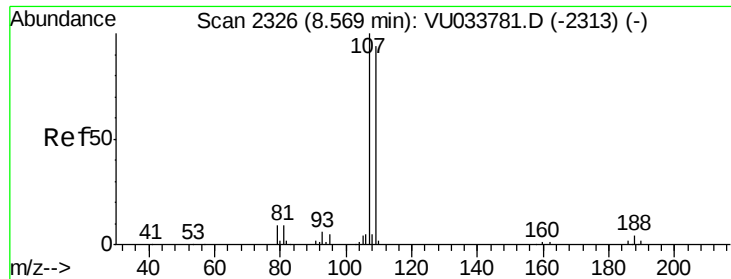
Tgt Ion:	43	Resp:	23081
Ion	Ratio	Lower	Upper
43	100		
58	55.9	45.4	68.0
57	21.7	15.4	23.0
100	10.7	9.4	14.2



#49
Dibromochloromethane
Concen: 2.946 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033786.D
Acq: 13 Aug 2019 17:09

Tgt Ion:	129	Resp:	9986
Ion	Ratio	Lower	Upper
129	100		
127	72.0	54.4	101.0





#50

1,2-Dibromoethane

Concen: 2.945 ug/L

RT: 8.57 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

MDL07

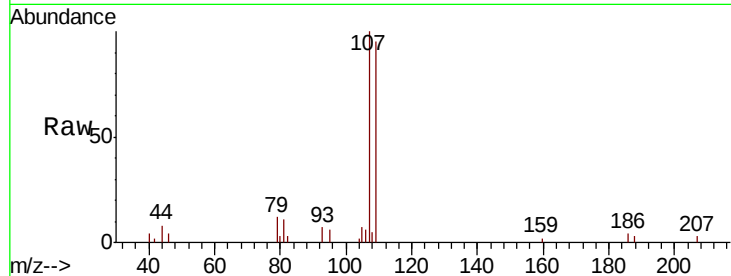
Tgt Ion:107 Resp: 9379

Ion Ratio Lower Upper

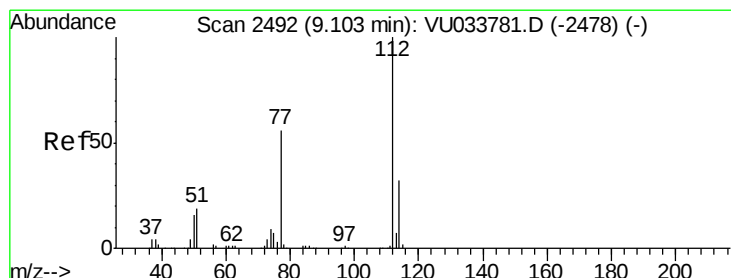
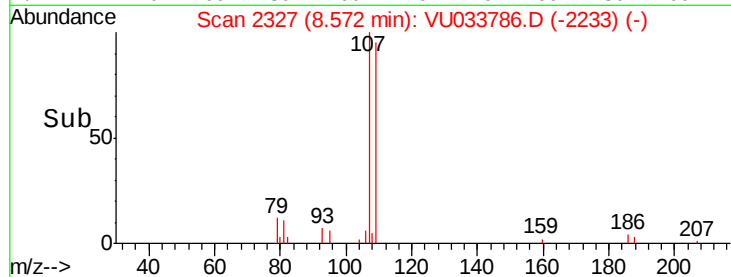
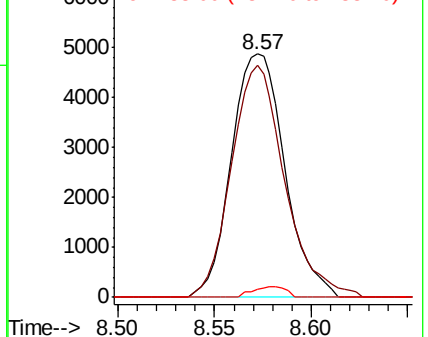
107 100

109 95.1 66.0 122.6

188 3.3 3.0 4.6



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 2.995 ug/L

RT: 9.10 min Scan# 2492

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

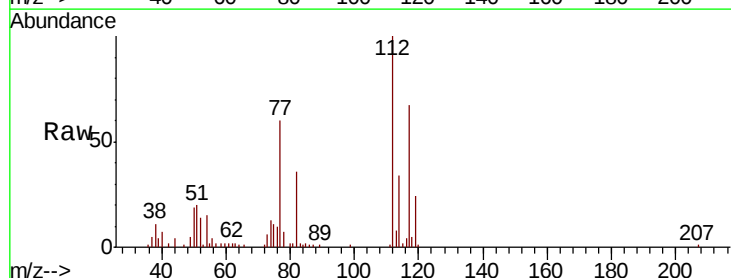
Tgt Ion:112 Resp: 24300

Ion Ratio Lower Upper

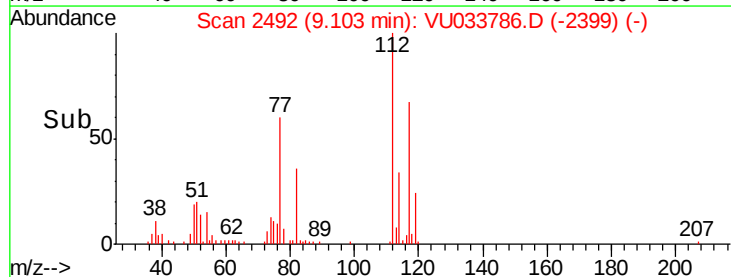
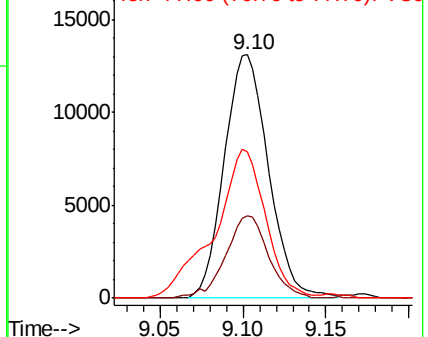
112 100

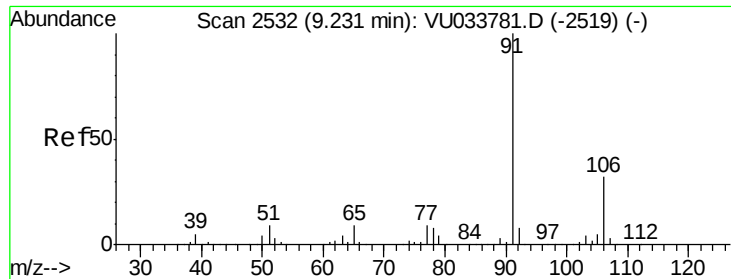
114 34.0 22.4 41.6

77 59.9 46.2 69.4



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 2.783 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

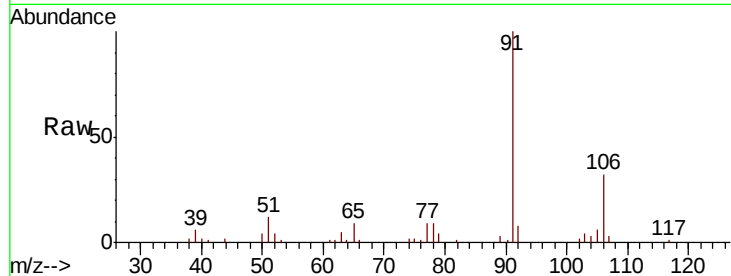
MDL07

Tgt Ion: 91 Resp: 36519

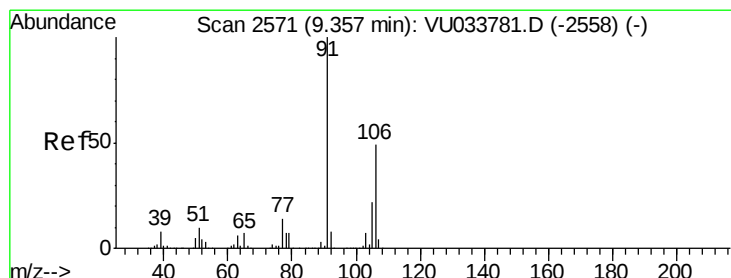
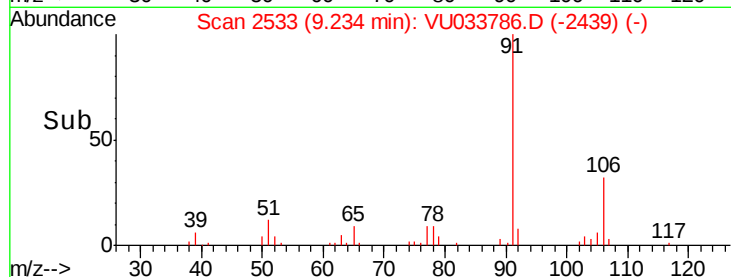
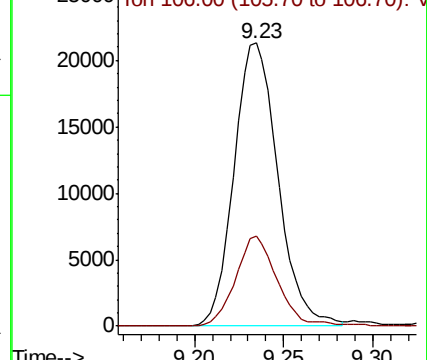
Ion Ratio Lower Upper

91 100

106 32.0 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VU033786.D (-2519) (-)



#53

m,p-Xylene

Concen: 2.507 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033786.D

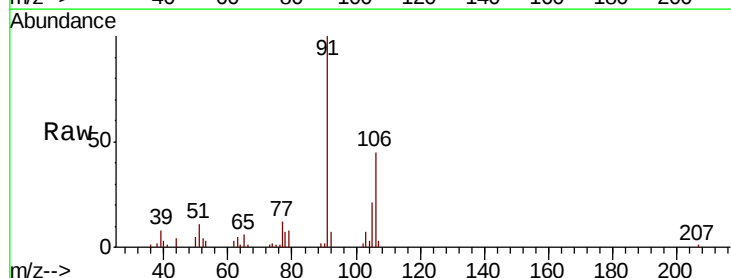
Acq: 13 Aug 2019 17:09

Tgt Ion: 106 Resp: 12294

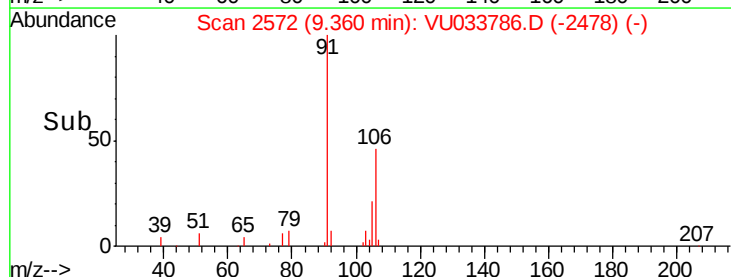
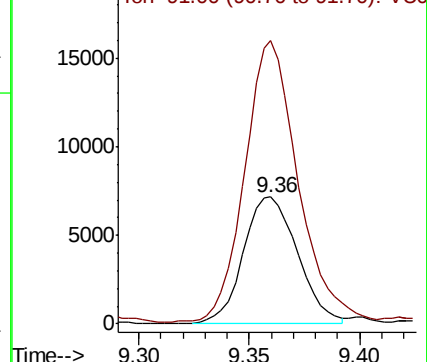
Ion Ratio Lower Upper

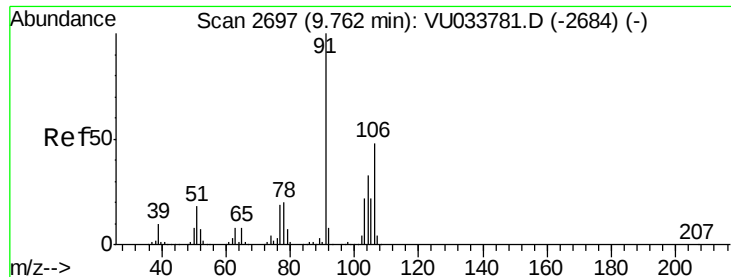
106 100

91 222.5 142.1 263.9



Abundance Ion 106.00 (105.70 to 106.70): VU033786.D (-2558) (-)

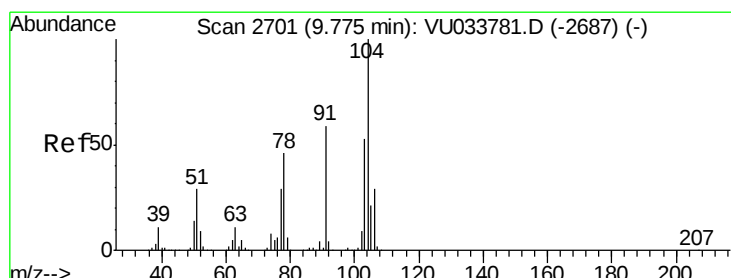
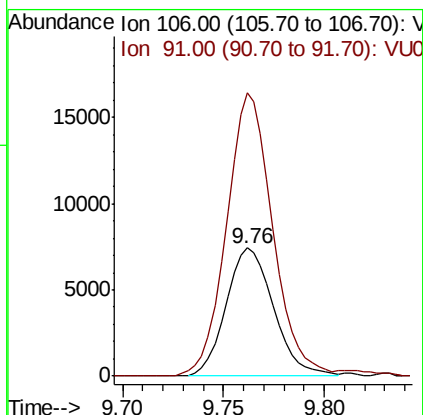
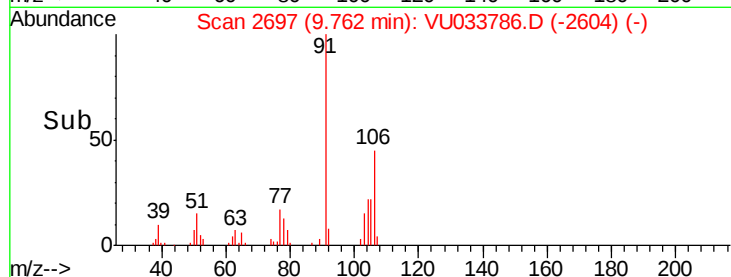
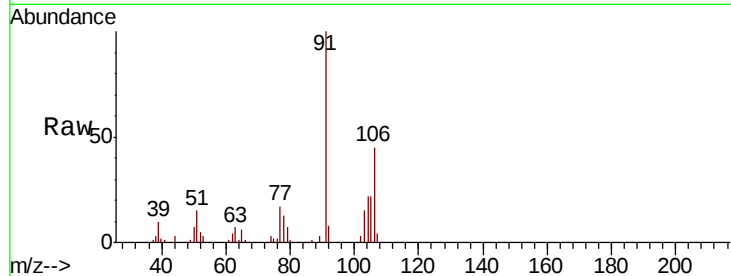




#54
o-xylene
Concen: 2.538 ug/L
RT: 9.76 min Scan# 2697
Delta R.T. 0.00 min
Lab File: VU033786.D
Acq: 13 Aug 2019 17:09

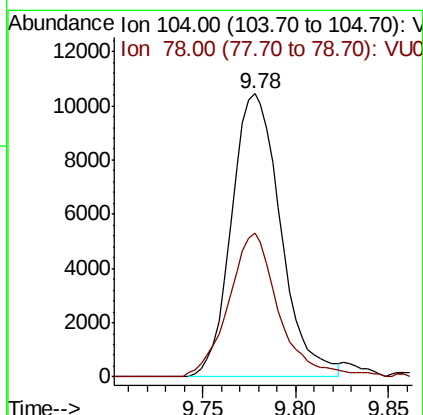
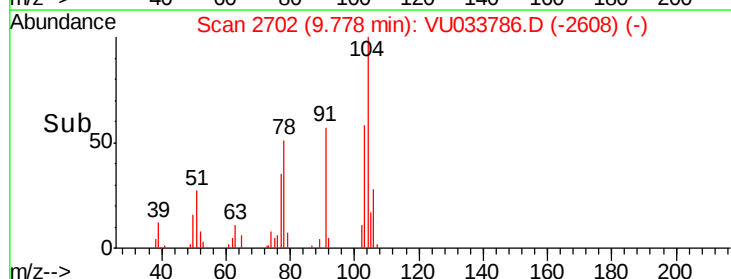
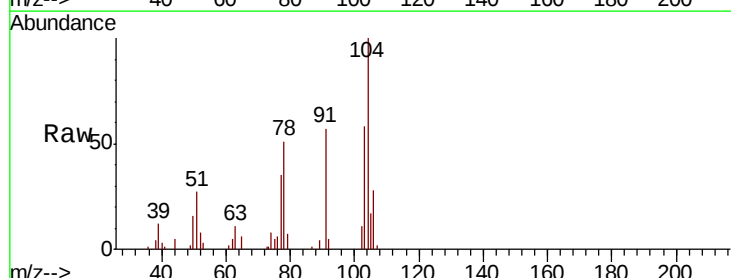
Instrument :
MSVOA_U
ClientSampled :
MDL07

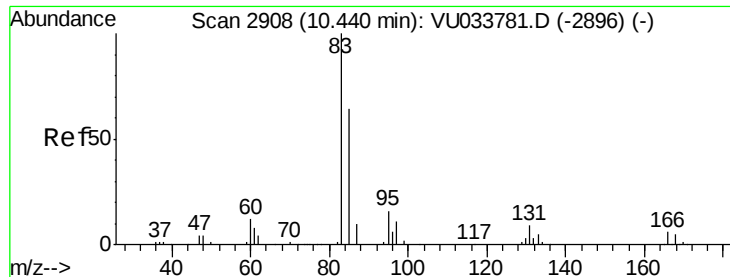
Tgt Ion:106 Resp: 12248
Ion Ratio Lower Upper
106 100
91 220.5 150.4 279.4



#55
Styrene
Concen: 2.353 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU033786.D
Acq: 13 Aug 2019 17:09

Tgt Ion:104 Resp: 19269
Ion Ratio Lower Upper
104 100
78 50.7 31.6 58.6





#57

1,1,2,2-Tetrachloroethane

Concen: 2.995 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

MDL07

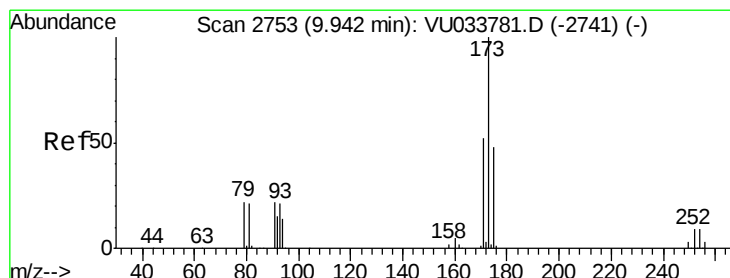
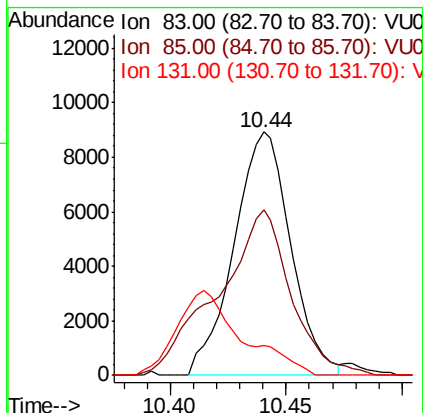
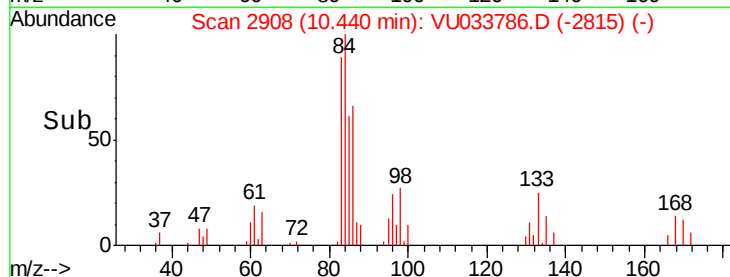
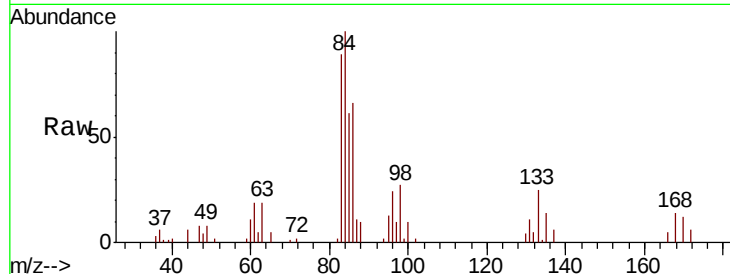
Tgt Ion: 83 Resp: 15207

Ion Ratio Lower Upper

83 100

85 67.8 44.7 83.1

131 12.4 7.8 11.6#



#59

Bromoform

Concen: 3.070 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

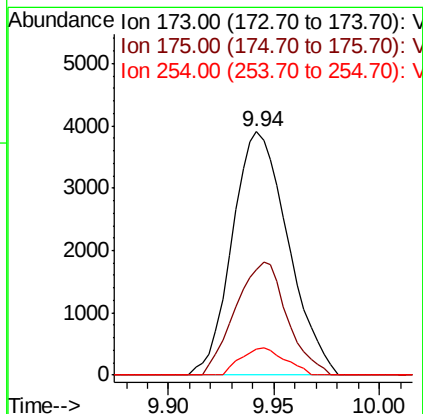
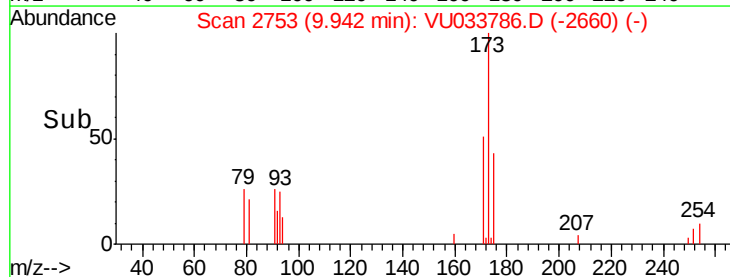
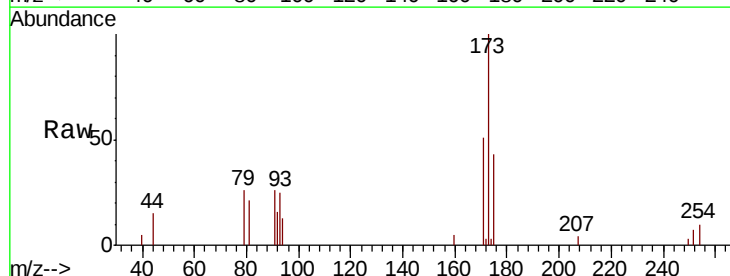
Tgt Ion: 173 Resp: 7179

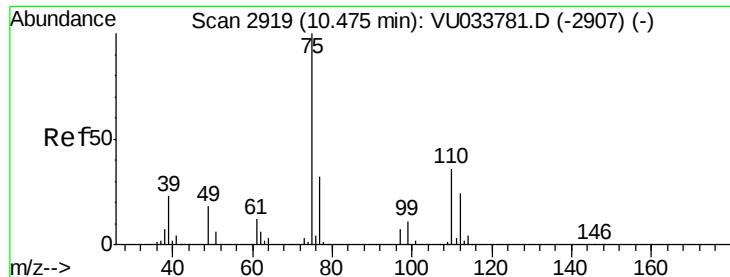
Ion Ratio Lower Upper

173 100

175 43.1 38.9 58.3

254 8.9 7.4 11.0





#60

1,2,3-Trichloropropane

Concen: 3.370 ug/L

RT: 10.48 min Scan# 2920

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

MDL07

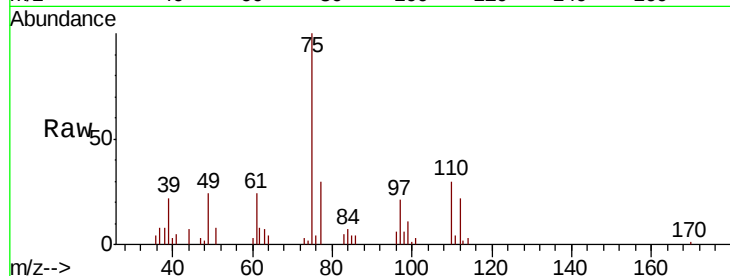
Tgt Ion: 75 Resp: 12414

Ion Ratio Lower Upper

75 100

77 30.4 25.6 38.4

110 34.5 29.7 44.5

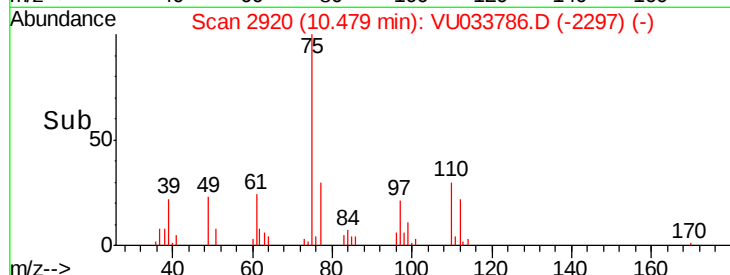


Abundance Ion 75.00 (74.70 to 75.70): VU033786.D (-2907) (-)

Ion 77.00 (76.70 to 77.70): VU033786.D (-2907) (-)

Ion 110.00 (109.70 to 110.70): VU033786.D (-2907) (-)

Time-->

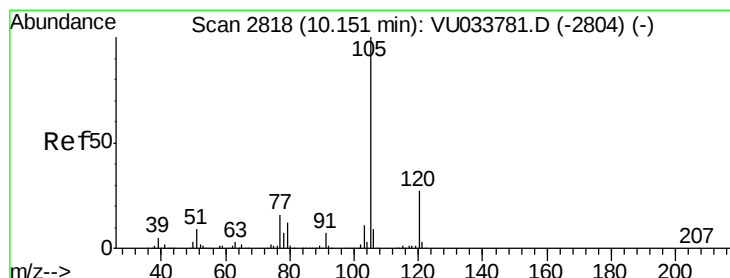


Abundance Ion 75.00 (74.70 to 75.70): VU033786.D (-2907) (-)

Ion 77.00 (76.70 to 77.70): VU033786.D (-2907) (-)

Ion 110.00 (109.70 to 110.70): VU033786.D (-2907) (-)

Time-->



#61

Isopropylbenzene

Concen: 2.765 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

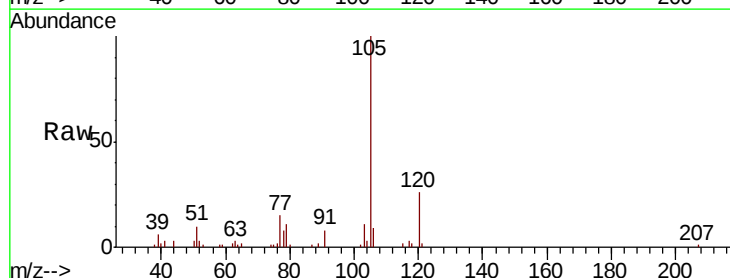
Tgt Ion: 105 Resp: 31329

Ion Ratio Lower Upper

105 100

120 27.0 21.0 31.6

77 15.8 12.8 19.2

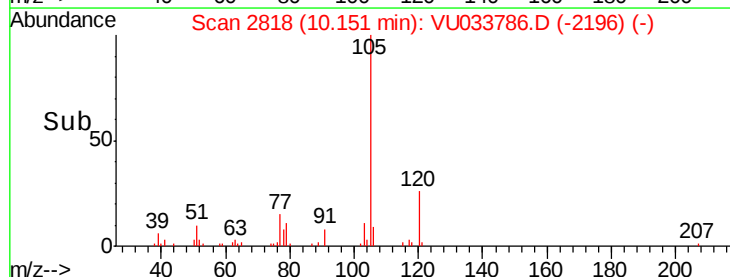


Abundance Ion 105.00 (104.70 to 105.70): VU033786.D (-2804) (-)

Ion 120.00 (119.70 to 120.70): VU033786.D (-2804) (-)

Ion 77.00 (76.70 to 77.70): VU033786.D (-2804) (-)

Time-->

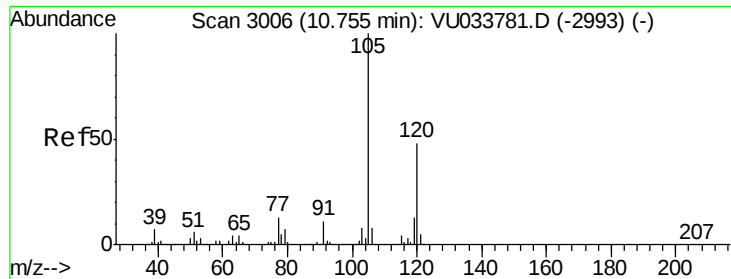


Abundance Ion 105.00 (104.70 to 105.70): VU033786.D (-2804) (-)

Ion 120.00 (119.70 to 120.70): VU033786.D (-2804) (-)

Ion 77.00 (76.70 to 77.70): VU033786.D (-2804) (-)

Time-->



#62

1,3,5-Trimethylbenzene

Concen: 2.561 ug/L

RT: 10.76 min Scan# 3006

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

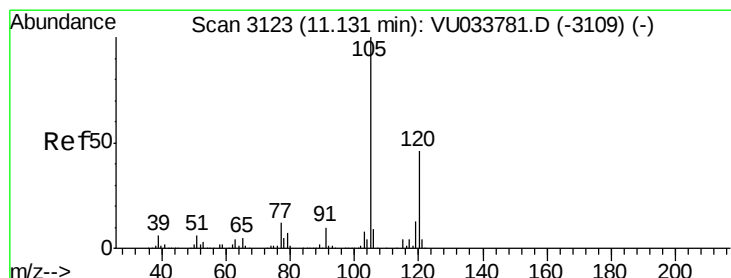
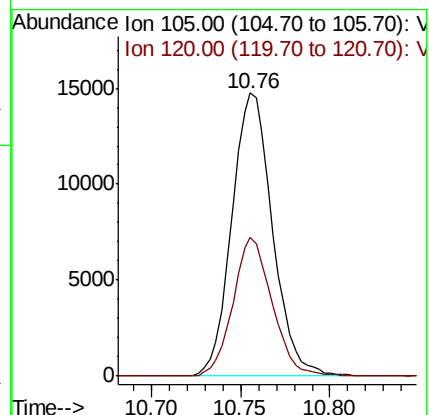
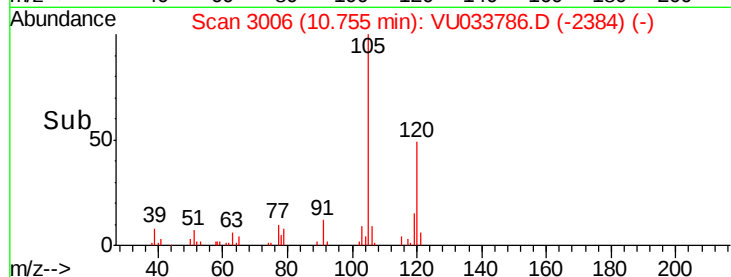
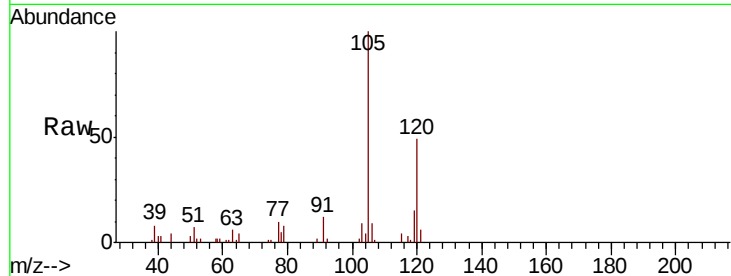
MDL07

Tgt Ion:105 Resp: 23431

Ion Ratio Lower Upper

105 100

120 47.0 39.4 59.2



#63

1,2,4-Trimethylbenzene

Concen: 2.426 ug/L

RT: 11.13 min Scan# 3124

Delta R.T. 0.00 min

Lab File: VU033786.D

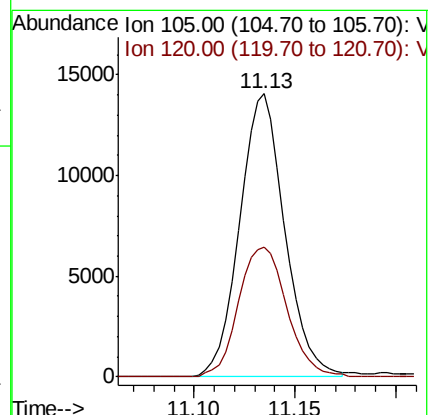
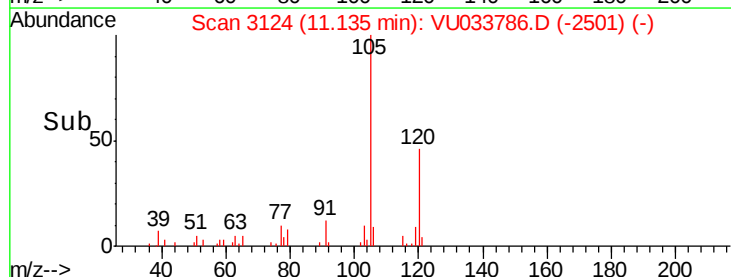
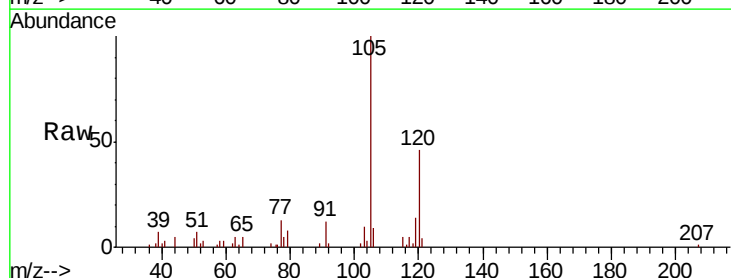
Acq: 13 Aug 2019 17:09

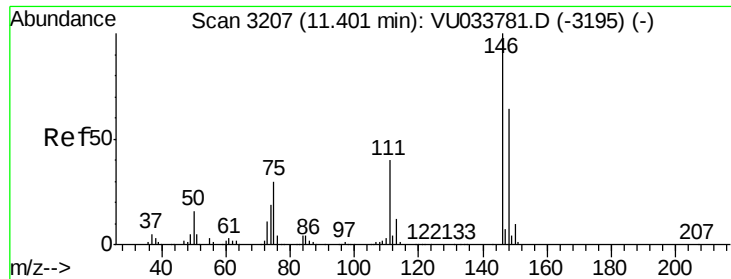
Tgt Ion:105 Resp: 22020

Ion Ratio Lower Upper

105 100

120 49.1 36.6 55.0





#64

1,3-Dichlorobenzene

Concen: 3.086 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

MDL07

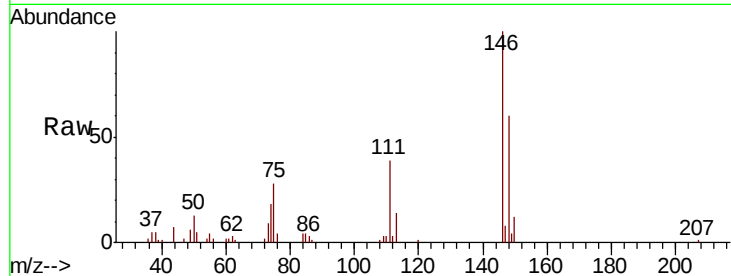
Tgt Ion:146 Resp: 17547

Ion Ratio Lower Upper

146 100

111 39.5 27.1 50.3

148 60.1 45.0 83.6

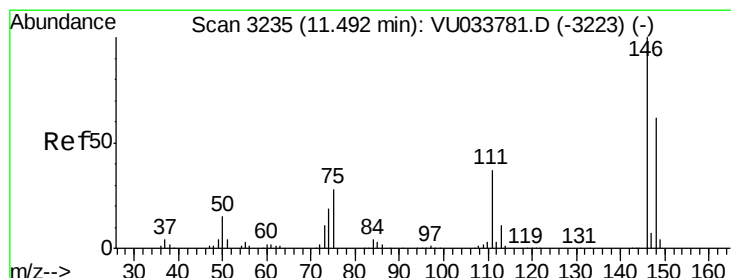
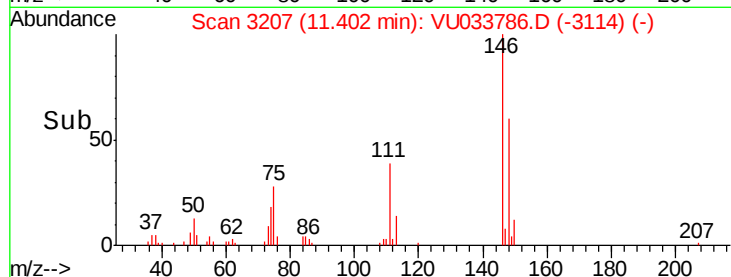
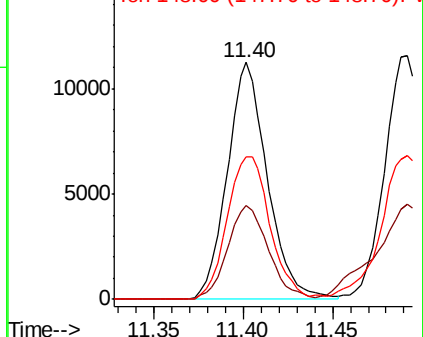


Abundance

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

1,4-Dichlorobenzene

Concen: 3.281 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

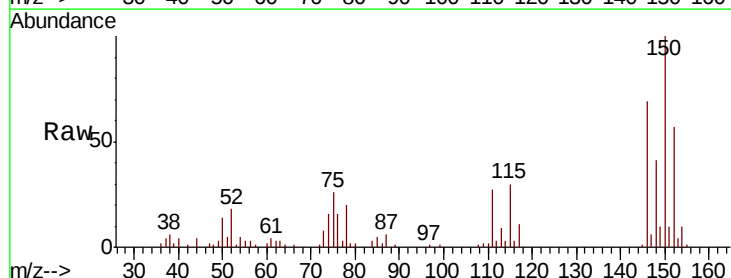
Tgt Ion:146 Resp: 19120

Ion Ratio Lower Upper

146 100

111 39.3 26.5 49.3

148 59.3 43.9 81.5

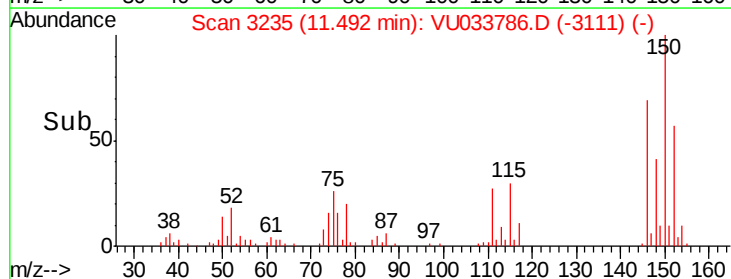
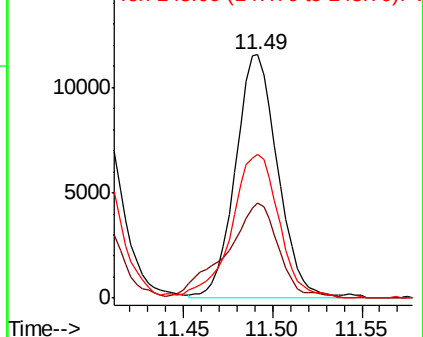


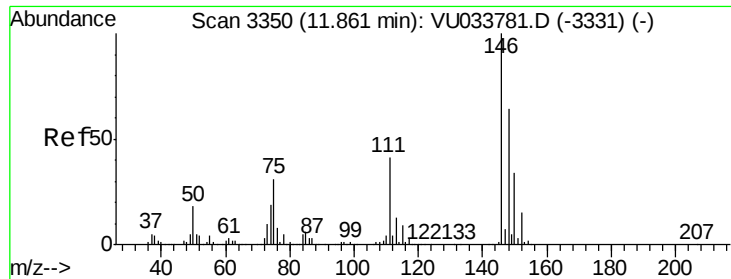
Abundance

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

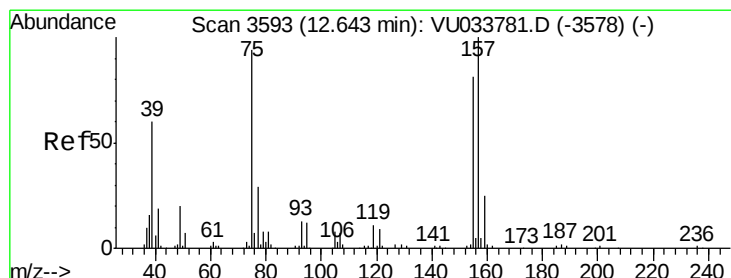
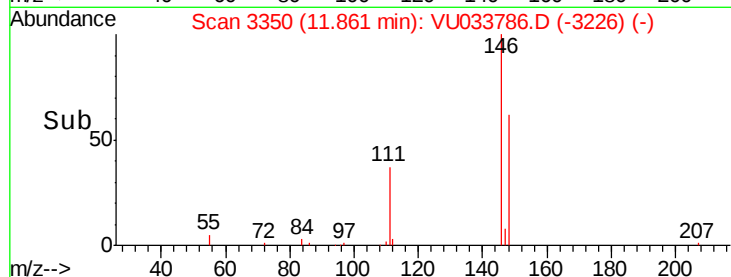
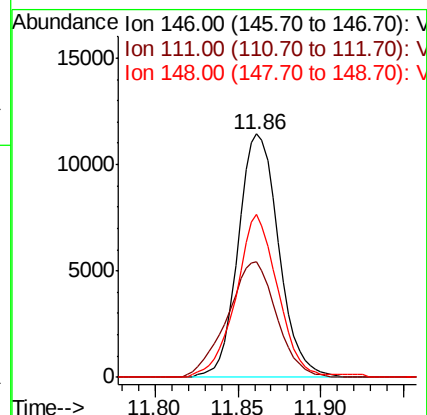
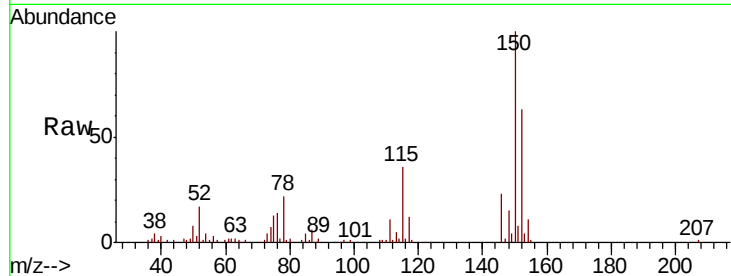




#67
 1,2-Dichlorobenzene
 Concen: 3.369 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU033786.D
 Acq: 13 Aug 2019 17:09

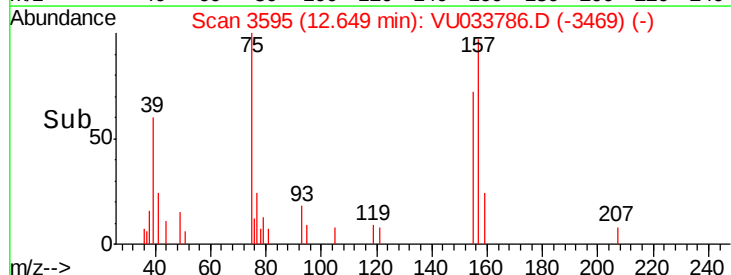
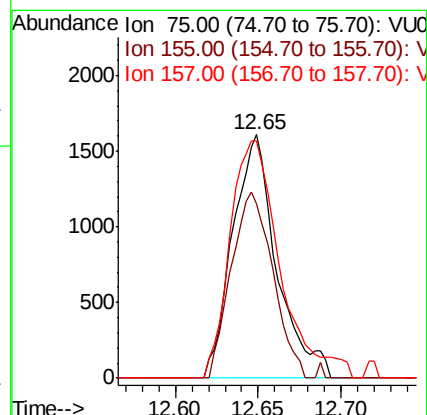
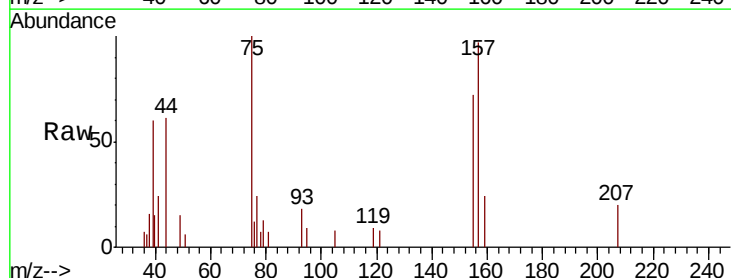
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

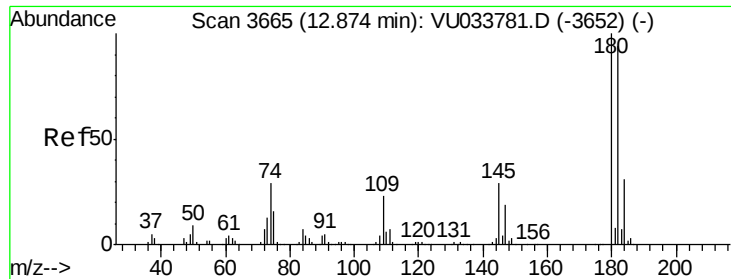
Tgt Ion: 146 Resp: 19463
 Ion Ratio Lower Upper
 146 100
 111 47.5 33.1 49.7
 148 66.7 51.8 77.8



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.884 ug/L
 RT: 12.65 min Scan# 3595
 Delta R.T. 0.01 min
 Lab File: VU033786.D
 Acq: 13 Aug 2019 17:09

Tgt Ion: 75 Resp: 2962
 Ion Ratio Lower Upper
 75 100
 155 71.8 65.9 98.9
 157 97.4 86.3 129.5

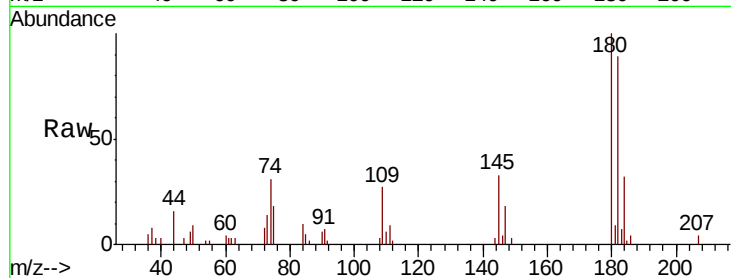




#69
 1,3,5-Trichlorobenzene
 Concen: 2.690 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033786.D
 Acq: 13 Aug 2019 17:09

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tgt Ion:	180	Resp:	11552
Ion	Ratio	Lower	Upper
180	100		
182	97.9	77.2	115.8
184	30.3	24.5	36.7
145	30.2	23.4	35.0



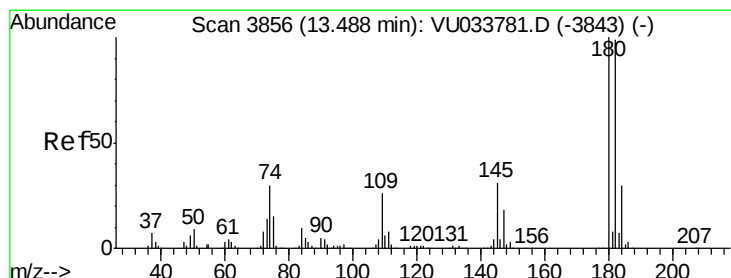
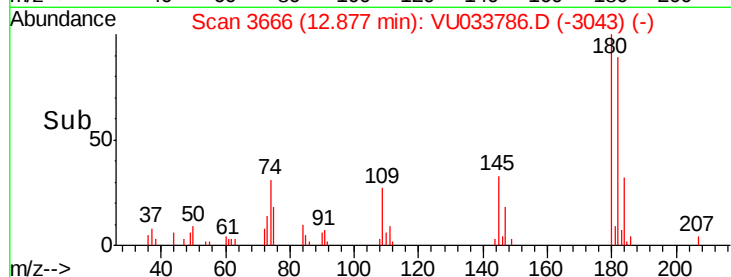
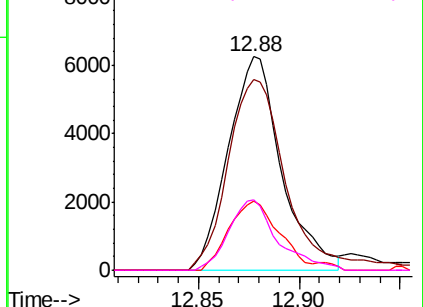
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

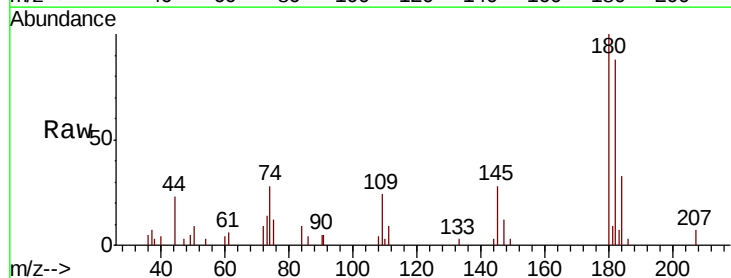
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 2.260 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.01 min
 Lab File: VU033786.D
 Acq: 13 Aug 2019 17:09

Tgt Ion:	180	Resp:	8049
Ion	Ratio	Lower	Upper
180	100		
182	89.4	75.3	112.9
145	32.5	23.3	34.9

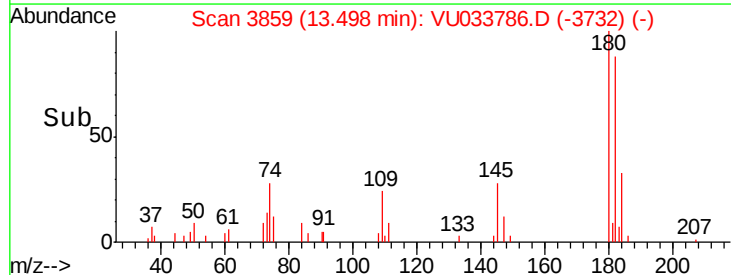
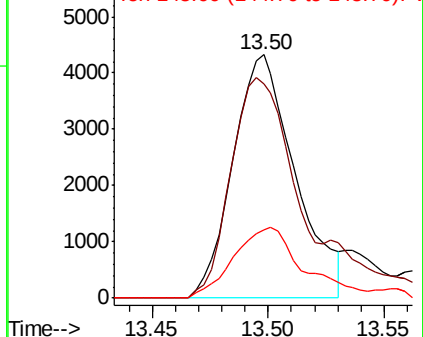


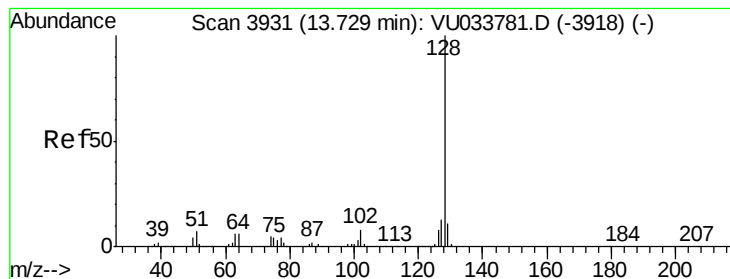
Abundance

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





#71

Naphthalene

Concen: 1.793 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. 0.01 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

MDL07

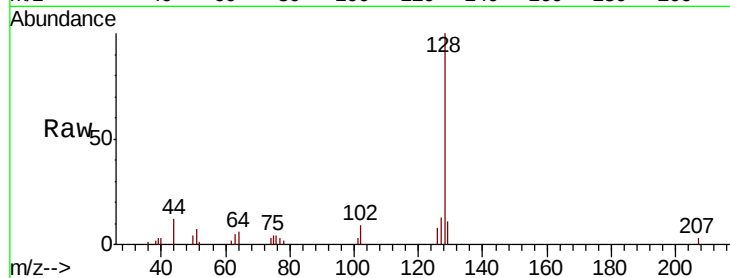
Tgt Ion:128 Resp: 19013

Ion Ratio Lower Upper

128 100

127 15.3 11.0 16.4

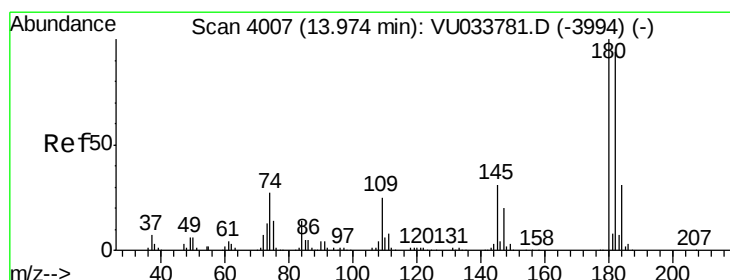
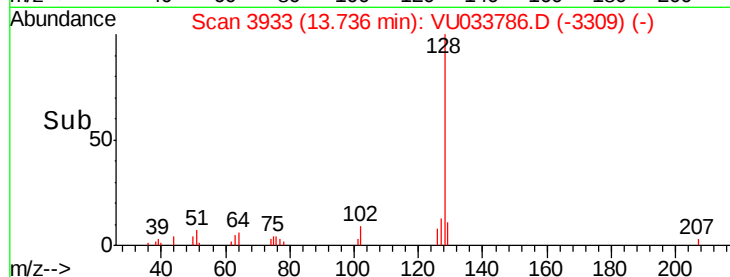
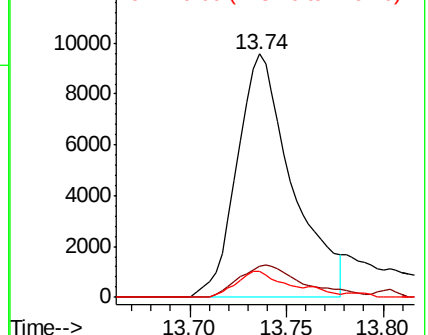
129 9.0 8.5 12.7



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



#72

1,2,3-Trichlorobenzene

Concen: 2.482 ug/L

RT: 13.98 min Scan# 4008

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

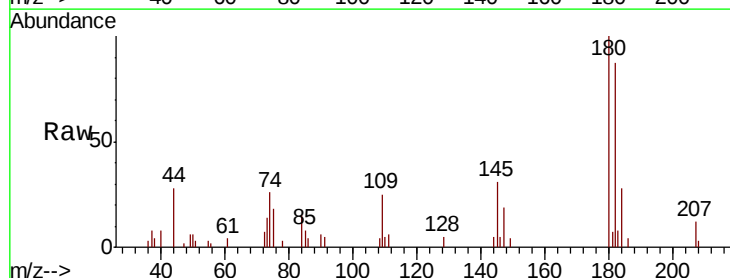
Tgt Ion:180 Resp: 9265

Ion Ratio Lower Upper

180 100

182 86.4 77.1 115.7

145 28.7 24.6 36.8



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

