

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080119\
 Data File : VU033538.D
 Acq On : 01 Aug 2019 10:08
 Operator : JC/SP
 Sample : MDL01
 Misc : 5.00u/5mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 MDL01

Manual Integrations
 APPROVED

MMDadoda
 8/2/2019 8:29:03 AM

Quant Time: Aug 02 02:07:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 02 01:49:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	281110	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	282838	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	139619	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	100914	49.37	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	98.74%
7) Chloroethane-d5	1.67	69	92369	52.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	105.34%
11) 1,1-Dichloroethene-d2	2.26	63	143705	38.74	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	77.48%
21) 2-Butanone-d5	4.15	46	165864	122.53	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	122.53%
24) Chloroform-d	4.62	84	189608	55.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	110.68%
26) 1,2-Dichloroethane-d4	5.29	65	125825	57.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	115.98%
32) Benzene-d6	5.32	84	380647	54.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.58%
36) 1,2-Dichloropropane-d6	6.31	67	123730	56.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	112.58%
41) Toluene-d8	7.55	98	345100	52.52	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	105.04%
43) trans-1,3-Dichloropropene-	7.83	79	57301	52.56	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	105.12%
47) 2-Hexanone-d5	8.30	63	118219	113.29	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	113.29%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	187034	55.19	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	110.38%
64) 1,2-Dichlorobenzene-d4	11.85	152	145070	56.74	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	113.48%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	7447	2.809 ug/L	95
3) Chloromethane	1.32	50	8126	3.043 ug/L	97
5) Vinyl chloride	1.40	62	8647	3.021 ug/L #	78
6) Bromomethane	1.62	94	5307	2.101 ug/L	89
8) Chloroethane	1.69	64	5181	2.979 ug/L	99
9) Trichlorofluoromethane	1.87	101	10794	2.883 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	6649	3.503 ug/L #	83
12) 1,1-Dichloroethene	2.27	96	6217	3.415 ug/L #	1
13) Acetone	2.31	43	9804	7.079 ug/L	99
14) Carbon disulfide	2.46	76	16780	2.939 ug/L	99
15) Methyl Acetate	2.60	43	6471	2.935 ug/L	91
16) Methylene chloride	2.68	84	6689	3.217 ug/L	98
17) trans-1,2-Dichloroethene	2.96	96	5631	2.952 ug/L	91
18) Methyl tert-butyl Ether	2.98	73	15978	2.747 ug/L	96
19) 1,1-Dichloroethane	3.43	63	10773	3.009 ug/L	91
20) cis-1,2-Dichloroethene	4.21	96	6397	2.988 ug/L	97
22) 2-Butanone	4.26	43	9291m	5.619 ug/L	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.53	128	3167	2.835	ug/L	97
25) Chloroform	4.65	83	14829	3.936	ug/L	93
27) 1,2-Dichloroethane	5.39	62	9236	3.184	ug/L	98
29) Cyclohexane	4.98	56	7784	2.523	ug/L #	94
30) 1,1,1-Trichloroethane	4.89	97	9756	2.998	ug/L	96
31) Carbon tetrachloride	5.12	117	8280	2.922	ug/L	97
33) Benzene	5.37	78	24777	3.037	ug/L	100
34) Trichloroethene	6.17	95	6431	2.988	ug/L	95
35) Methylcyclohexane	6.40	83	8395	2.499	ug/L	99
37) 1,2-Dichloropropane	6.41	63	6518	2.984	ug/L	99
38) Bromodichloromethane	6.74	83	8313	2.944	ug/L	96
39) cis-1,3-Dichloropropene	7.25	75	10047m	2.947	ug/L	
40) 4-Methyl-2-pentanone	7.45	43	16359	5.425	ug/L	98
42) Toluene	7.62	91	25438	2.899	ug/L	97
44) trans-1,3-Dichloropropene	7.86	75	7505m	2.436	ug/L	
45) 1,1,2-Trichloroethane	8.05	97	5912	2.851	ug/L	95
46) Tetrachloroethene	8.21	164	4834	2.751	ug/L	92
48) 2-Hexanone	8.35	43	15327	6.288	ug/L	97
49) Dibromochloromethane	8.46	129	6761	2.866	ug/L	97
50) 1,2-Dibromoethane	8.57	107	6310	2.747	ug/L #	87
51) Chlorobenzene	9.10	112	16453	2.864	ug/L	94
52) Ethylbenzene	9.23	91	24764	2.621	ug/L	98
53) m,p-Xylene	9.36	106	8858	2.442	ug/L	95
54) o-xylene	9.76	106	8689	2.470	ug/L	91
55) Styrene	9.78	104	13616	2.279	ug/L	99
56) Isopropylbenzene	10.15	105	21464	2.335	ug/L	96
58) 1,1,1,2,2-Tetrachloroethane	10.44	83	12017	3.213	ug/L #	97
59) 1,2,3-Trichloropropane	10.48	75	8772	3.043	ug/L	98
61) Bromoform	9.94	173	5018	2.975	ug/L #	96
62) 1,3-Dichlorobenzene	11.40	146	11802	2.752	ug/L	96
63) 1,4-Dichlorobenzene	11.49	146	13274	2.980	ug/L	96
65) 1,2-Dichlorobenzene	11.86	146	13393	3.089	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.65	75	2171	2.710	ug/L	92
67) 1,3,5-Trichlorobenzene	12.88	180	9102	2.631	ug/L	97
68) 1,2,4-trichlorobenzene	13.50	180	6160	2.084	ug/L	95
69) Naphthalene	13.74	128	16273m	1.919	ug/L	
70) 1,2,3-Trichlorobenzene	13.98	180	6974	2.243	ug/L	98

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

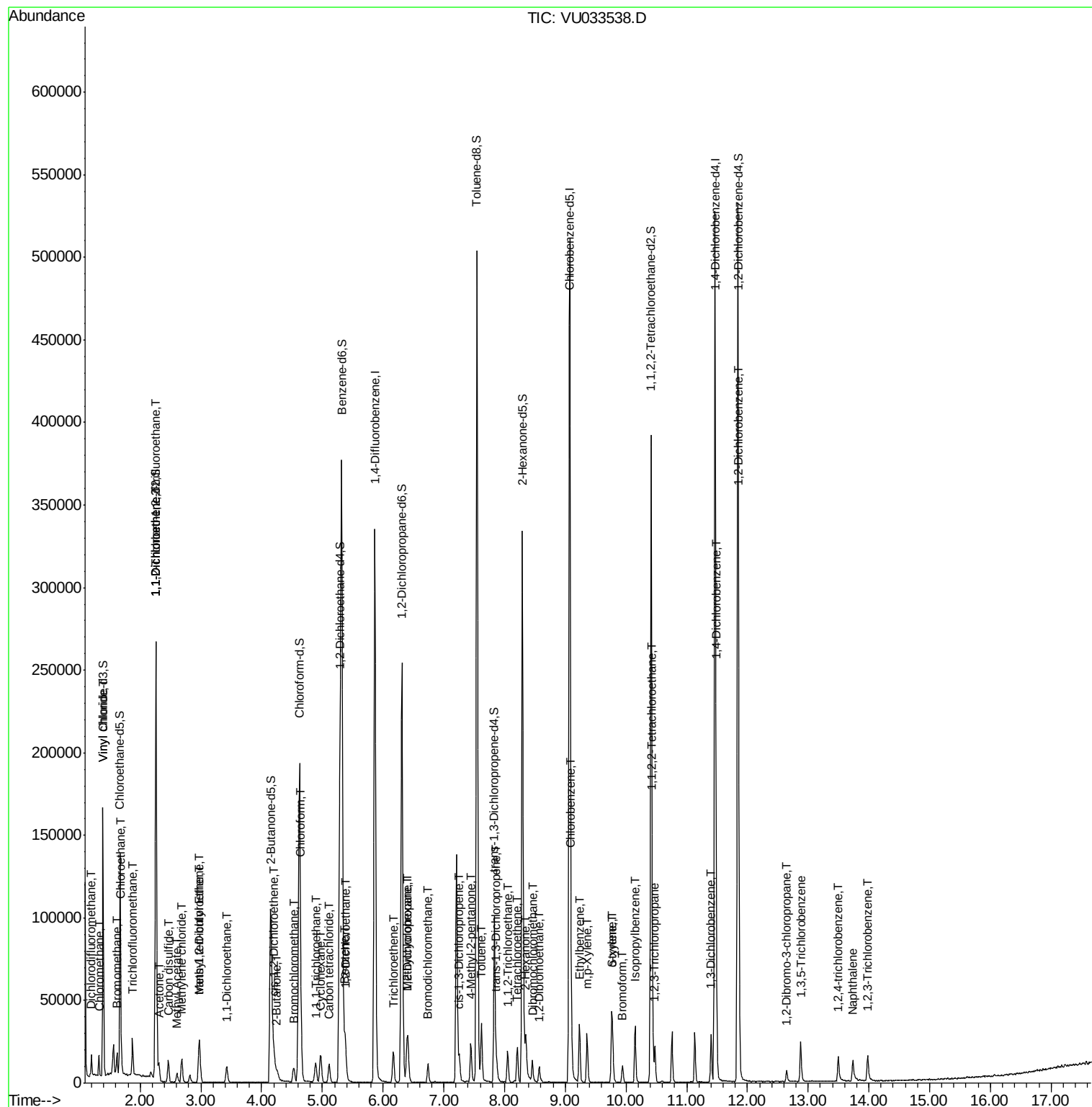
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU080119\
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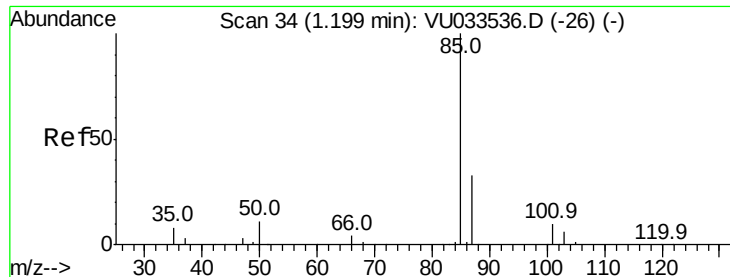
Instrument :
MSVOA_U
ClientSampleId :
MDL01

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.809 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 85 Resp: 7447

Ion Ratio Lower Upper

85 100

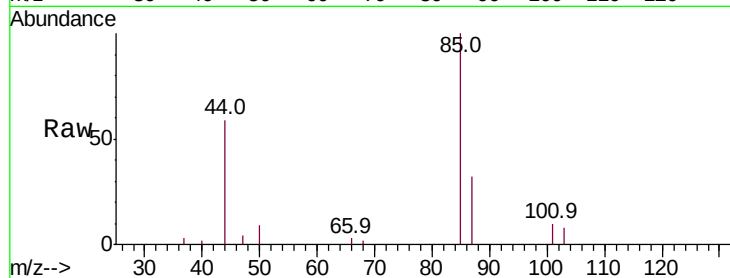
87 34.5 25.4 38.2

Manual Integrations

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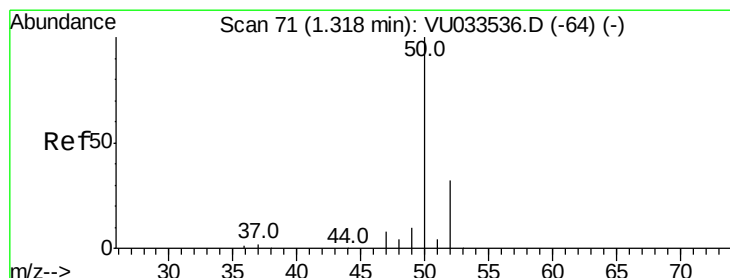
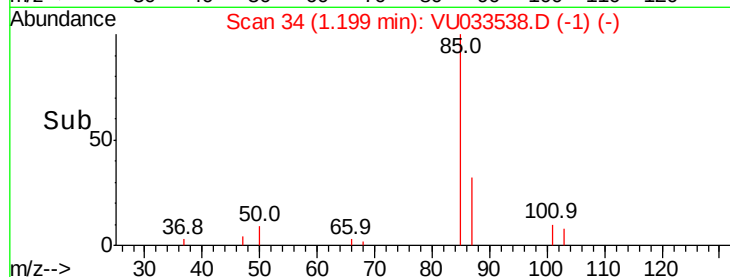
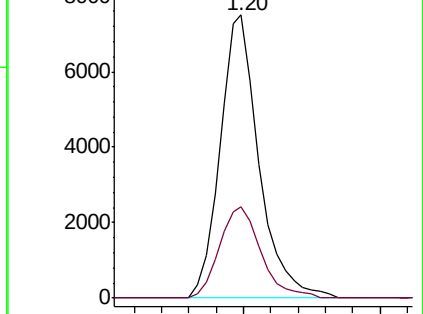
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Abundance Ion 85.00 (84.70 to 85.70): VU033538.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033538.D (-26) (-)



#3

Chloromethane

Concen: 3.043 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033538.D

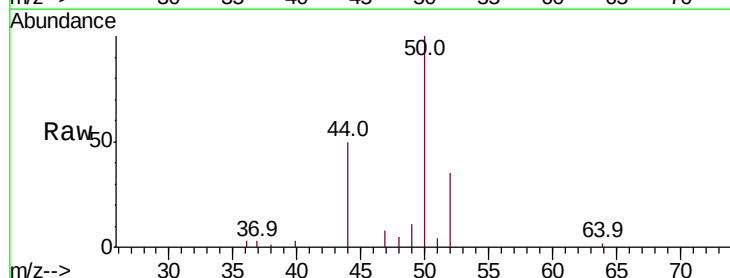
Acq: 01 Aug 2019 10:08

Tgt Ion: 50 Resp: 8126

Ion Ratio Lower Upper

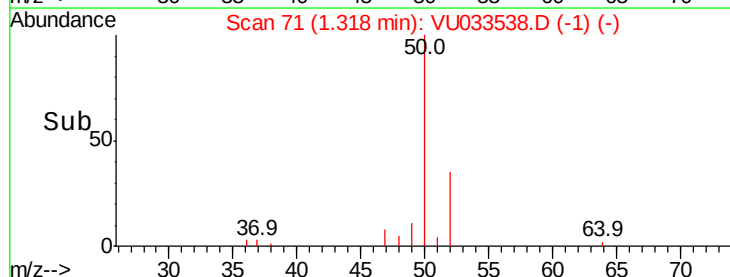
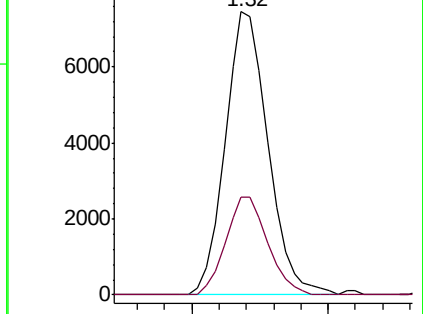
50 100

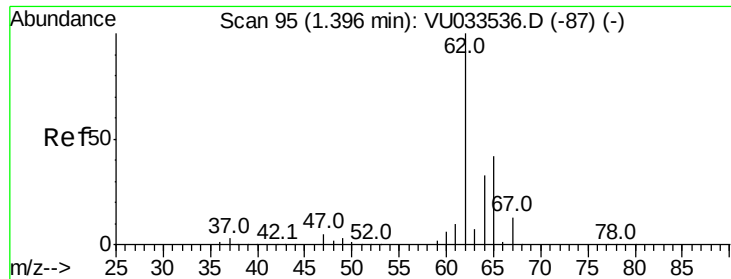
52 34.7 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033538.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU033538.D (-64) (-)





#5

Vinyl chloride

Concen: 3.021 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 62 Resp: 8647

Ion Ratio Lower Upper

62 100

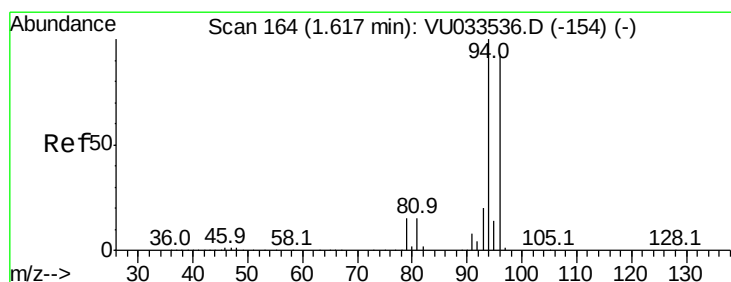
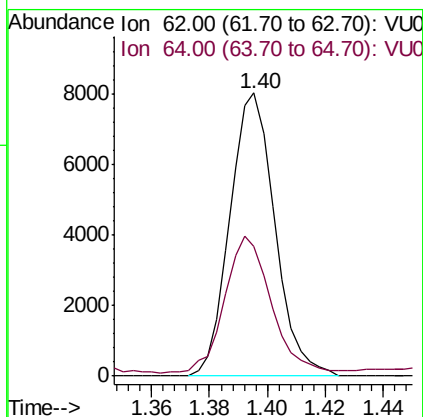
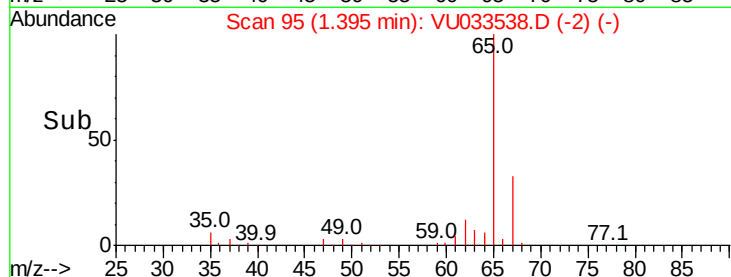
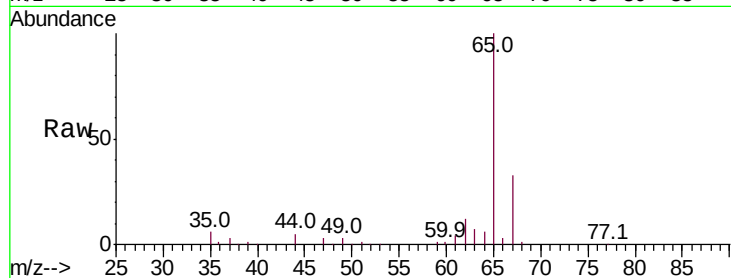
64 46.0 23.4 43.4#

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8/2/2019 8:29:03 AM



#6

Bromomethane

Concen: 2.101 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU033538.D

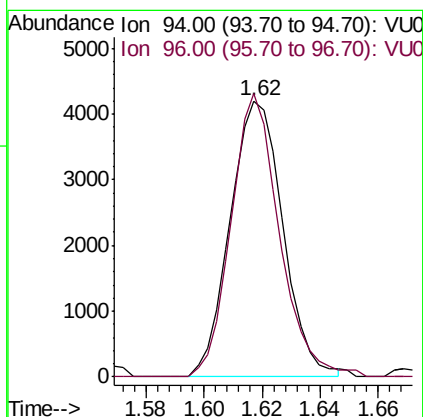
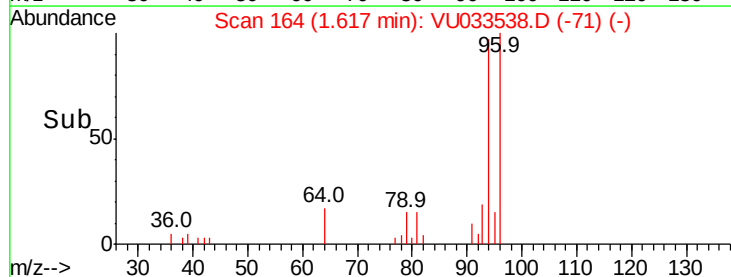
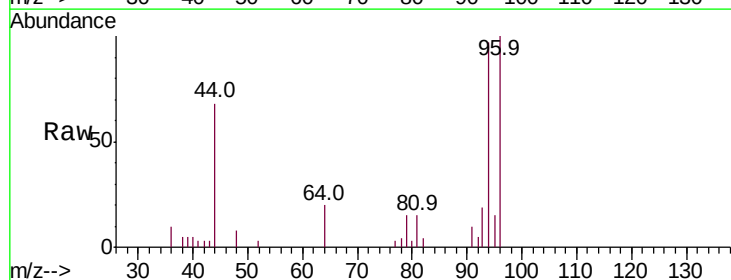
Acq: 01 Aug 2019 10:08

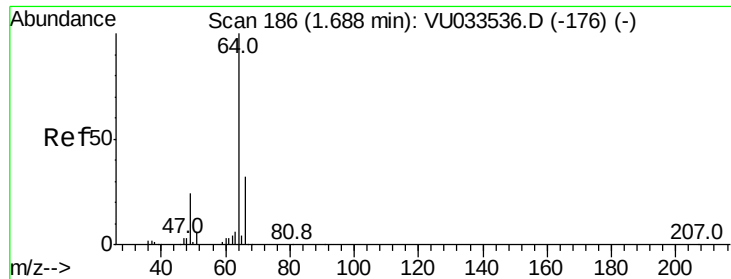
Tgt Ion: 94 Resp: 5307

Ion Ratio Lower Upper

94 100

96 102.6 64.4 119.6





#8

Chloroethane

Concen: 2.979 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 64 Resp: 5181

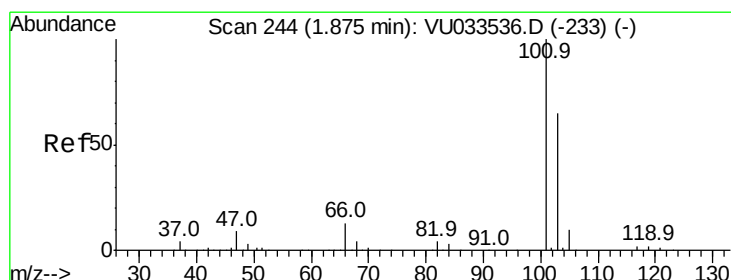
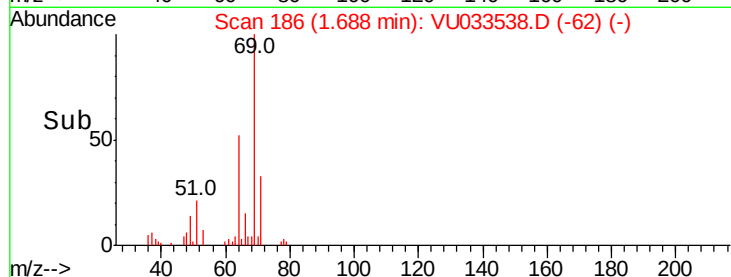
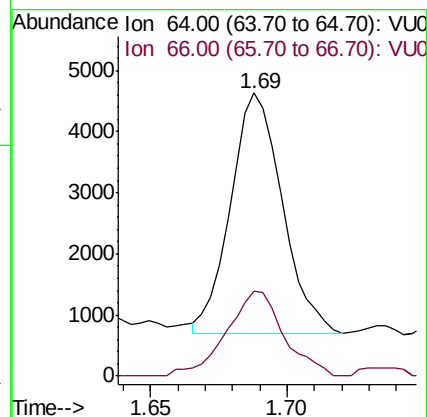
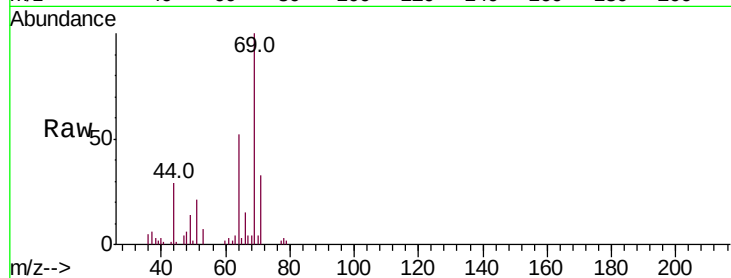
Ion Ratio Lower Upper

64 100

66 29.8 21.1 39.3

Manual Integrations
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8/2/2019 8:29:03 AM



#9

Trichlorofluoromethane

Concen: 2.883 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033538.D

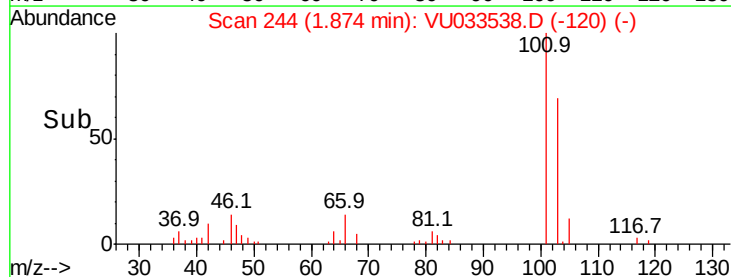
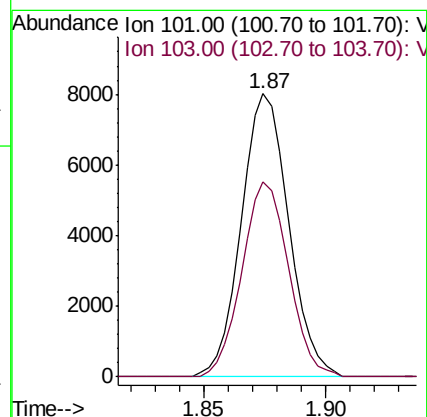
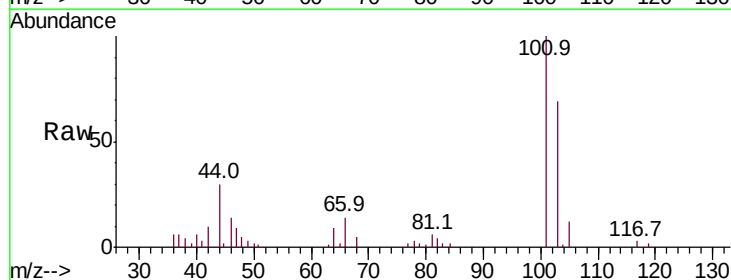
Acq: 01 Aug 2019 10:08

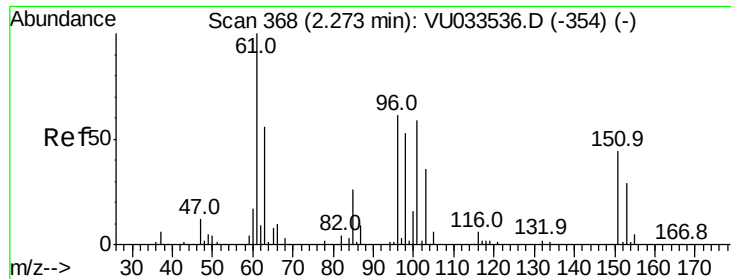
Tgt Ion: 101 Resp: 10794

Ion Ratio Lower Upper

101 100

103 67.9 51.6 77.4





#10

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

Concen: 3.503 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

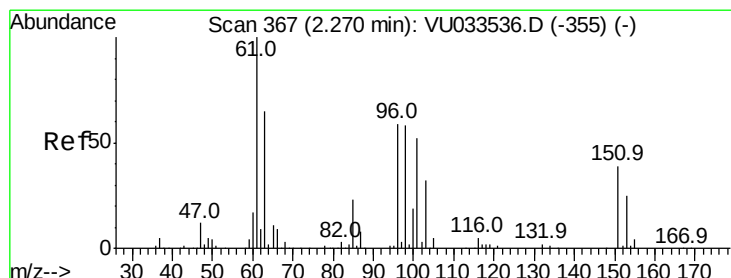
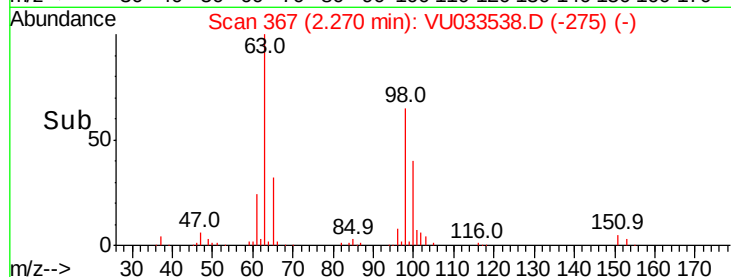
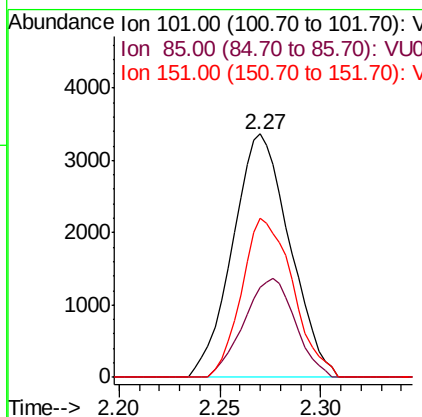
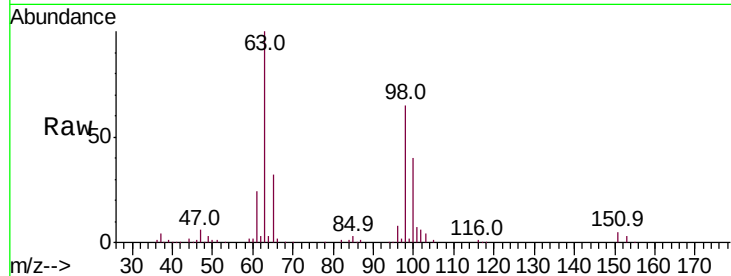
ClientSampled :

MDL01

Tot Ion:	101	Resp:	6649
Ion Ratio	Lower	Upper	
101	100		
85	36.6	35.8	53.8
151	58.7	60.1	90.1#

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8/2/2019 8:29:03 AM



#12

1,1-Dichloroethene

Concen: 3.415 ug/L

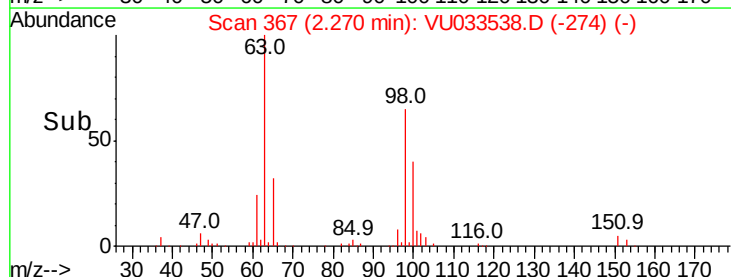
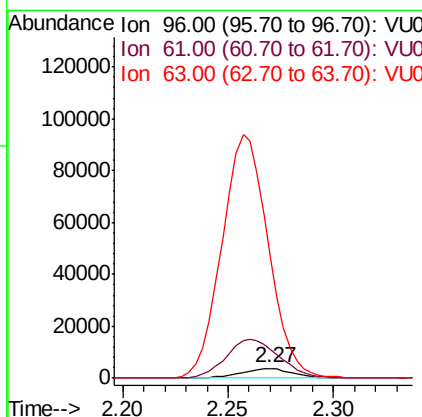
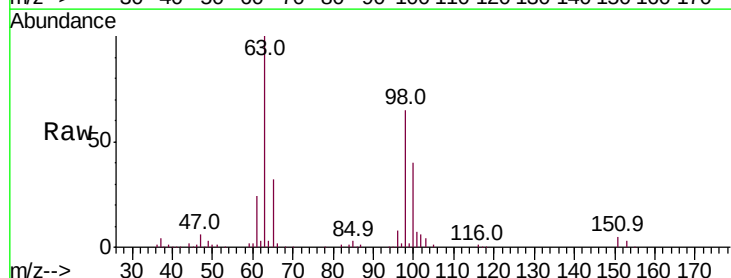
RT: 2.27 min Scan# 367

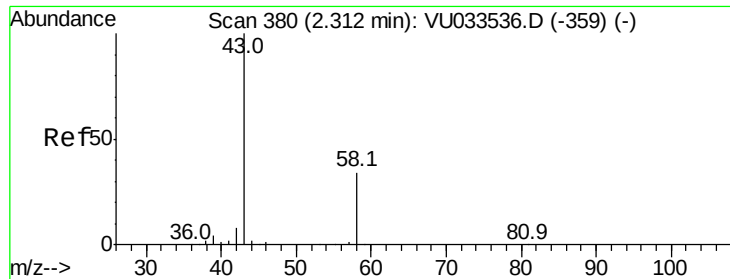
Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Tgt Ion:	96	Resp:	6217
Ion Ratio	Lower	Upper	
96	100		
61	292.8	119.3	221.5#
63	1224.9	86.6	160.8#





#13

Acetone

Concen: 7.079 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 43 Resp: 9804

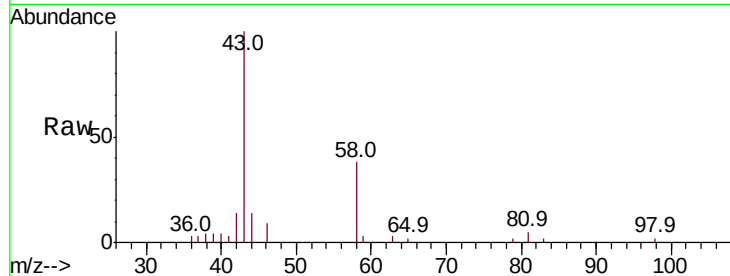
Ion Ratio Lower Upper

43 100

58 33.8 0.0 66.2

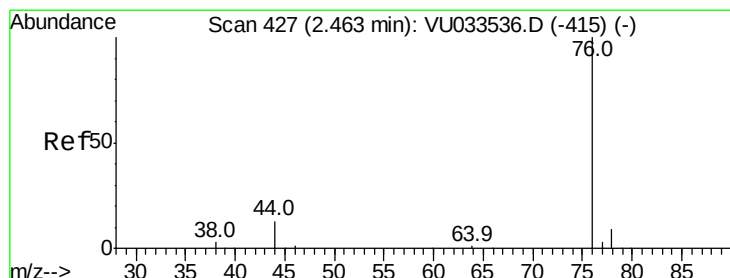
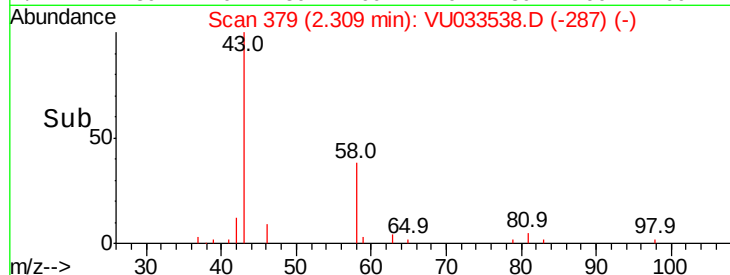
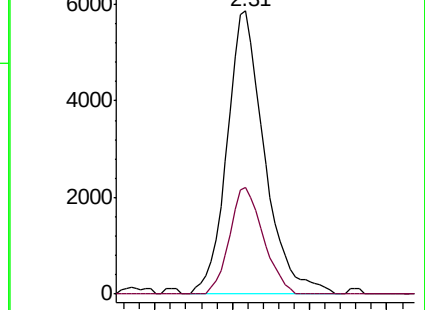
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Abundance Ion 43.00 (42.70 to 43.70): VU033538.D (-379) (-)

Ion 58.00 (57.70 to 58.70): VU033538.D (-379) (-)



#14

Carbon disulfide

Concen: 2.939 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033538.D

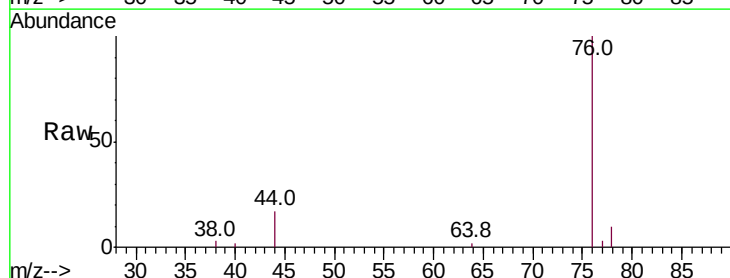
Acq: 01 Aug 2019 10:08

Tgt Ion: 76 Resp: 16780

Ion Ratio Lower Upper

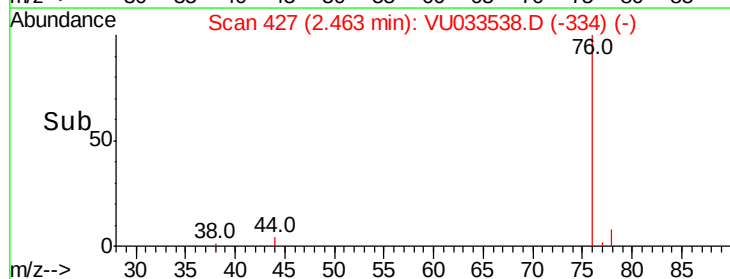
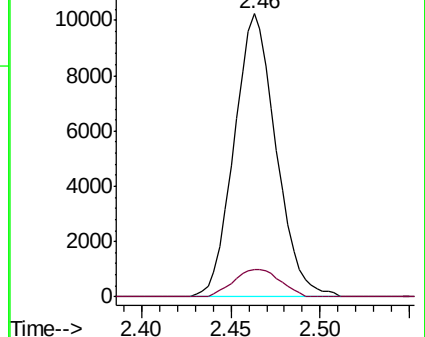
76 100

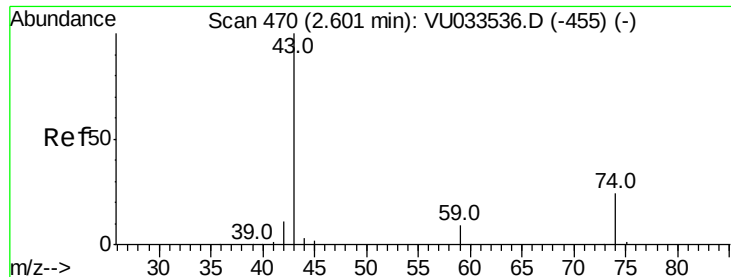
78 9.7 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU033538.D (-427) (-)

Ion 78.00 (77.70 to 78.70): VU033538.D (-427) (-)





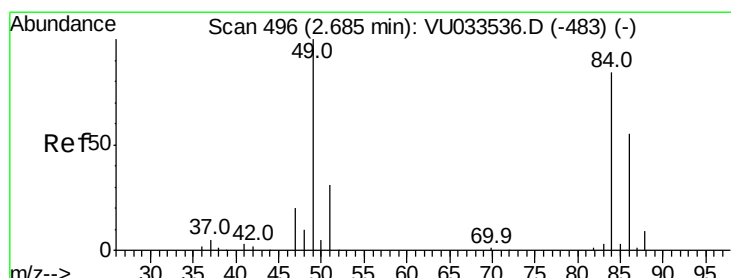
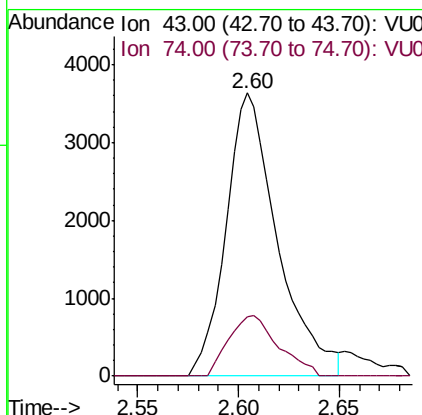
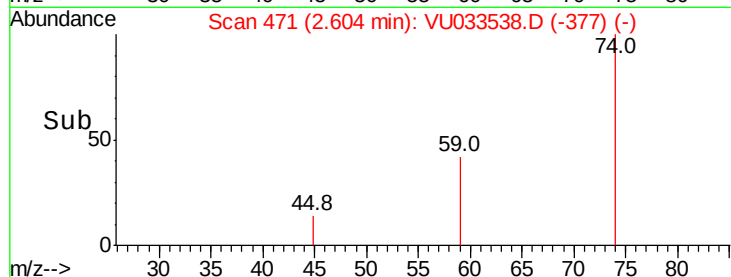
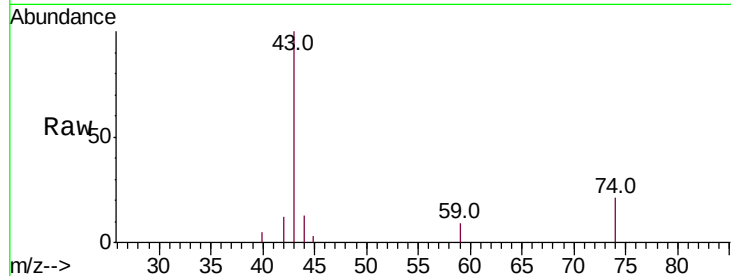
#15
Methyl Acetate
Concen: 2.935 ug/L
RT: 2.60 min Scan# 471
Delta R.T. 0.00 min
Lab File: VU033538.D
Acq: 01 Aug 2019 10:08

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion: 43 Resp: 6471
Ion Ratio Lower Upper
43 100
74 20.7 20.1 30.1

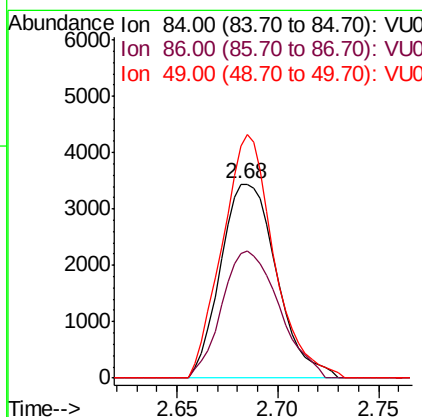
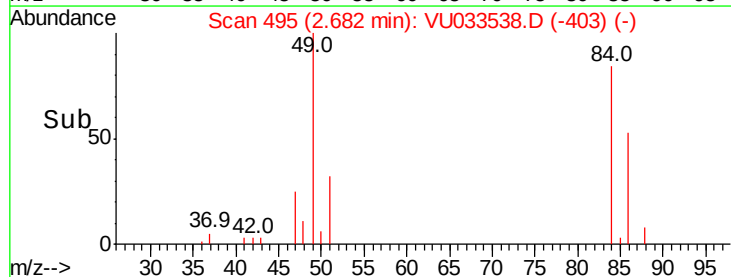
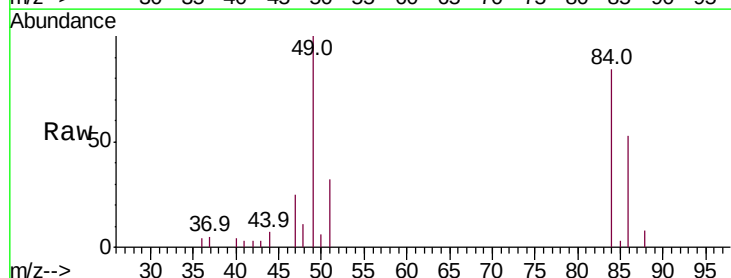
Manual Integrations
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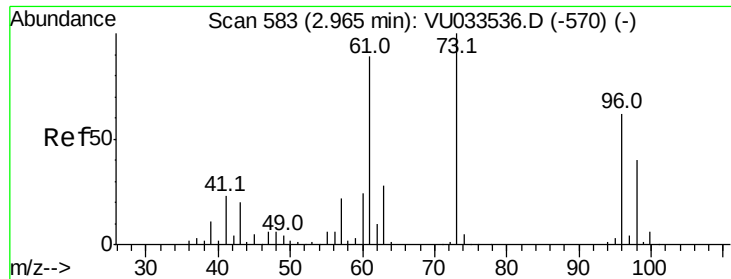
MMDadoda
8/2/2019 8:29:03 AM



#16
Methylene chloride
Concen: 3.217 ug/L
RT: 2.68 min Scan# 495
Delta R.T. -0.00 min
Lab File: VU033538.D
Acq: 01 Aug 2019 10:08

Tgt Ion: 84 Resp: 6689
Ion Ratio Lower Upper
84 100
86 63.9 45.7 84.9
49 119.6 85.0 158.0





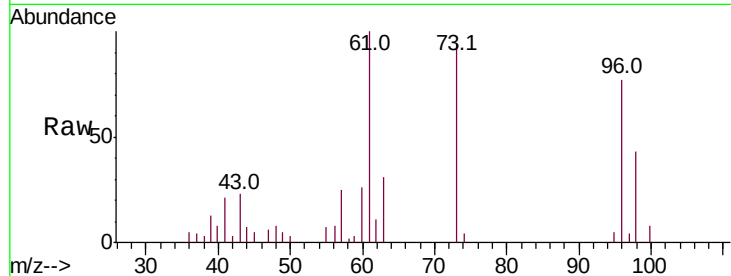
#17
trans-1,2-Dichloroethene
Concen: 2.952 ug/L
RT: 2.96 min Scan# 583
Delta R.T. -0.00 min
Lab File: VU033538.D
Acq: 01 Aug 2019 10:08

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion	Ratio	Lower	Upper
96	100		
61	129.8	98.3	182.5
98	56.2	44.3	82.3

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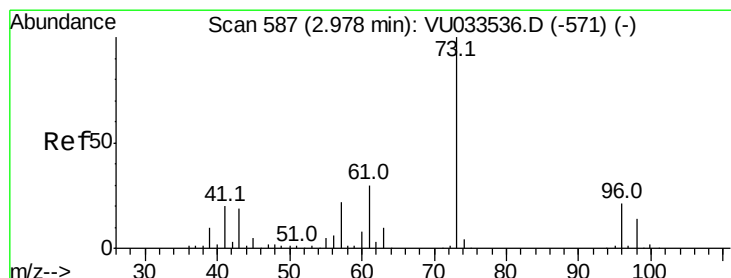
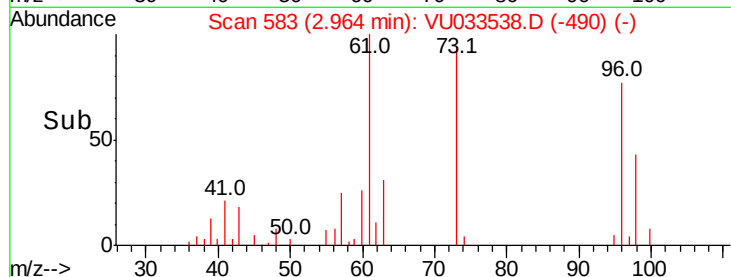
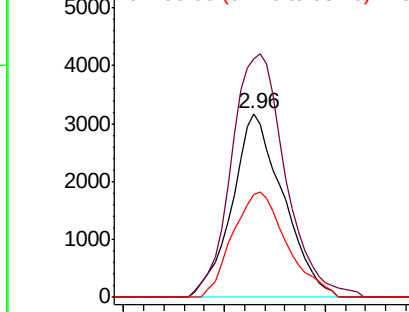


Abundance

Ion 96.00 (95.70 to 96.70): VU0

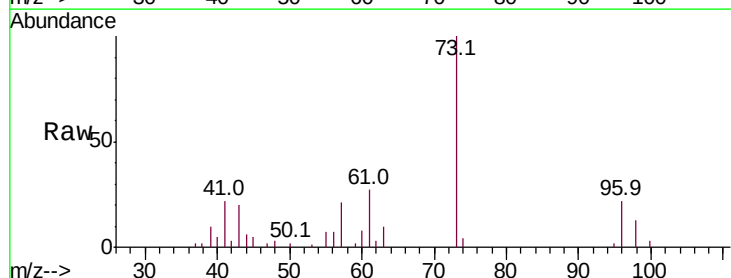
Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18
Methyl tert-butyl Ether
Concen: 2.747 ug/L
RT: 2.98 min Scan# 588
Delta R.T. 0.00 min
Lab File: VU033538.D
Acq: 01 Aug 2019 10:08

Tgt Ion	Ratio	Lower	Upper
73	100		
43	20.6	15.4	23.2
57	24.3	17.4	26.2

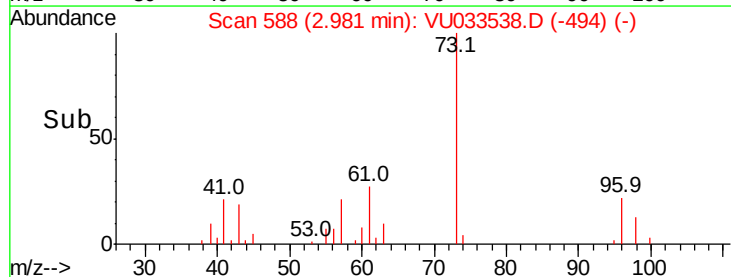
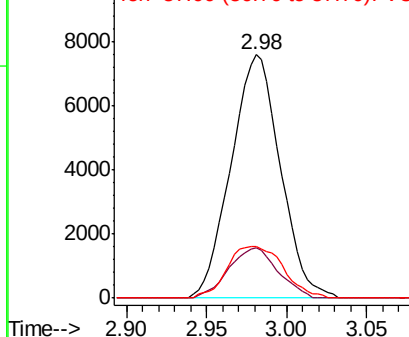


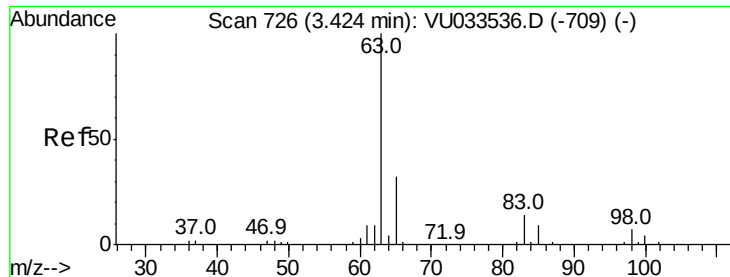
Abundance

Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 3.009 ug/L

RT: 3.43 min Scan# 727

Delta R.T. 0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

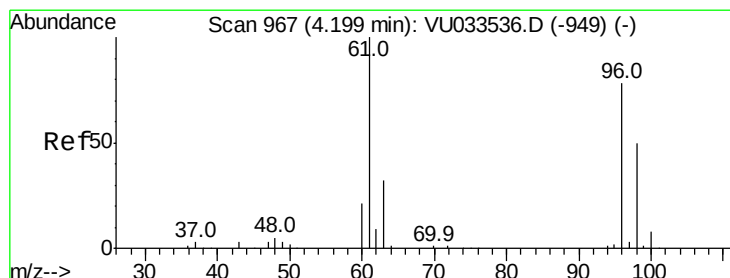
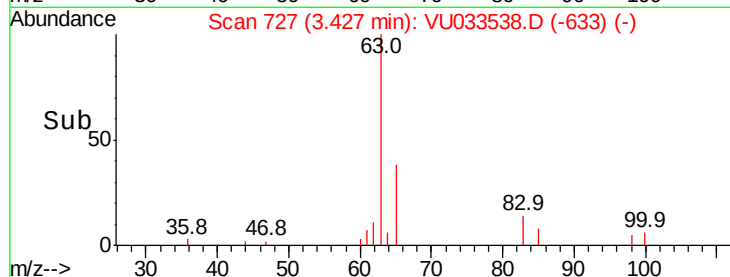
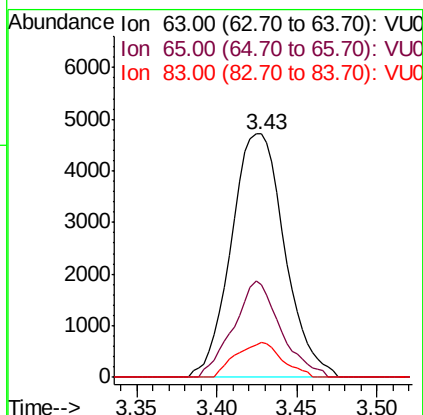
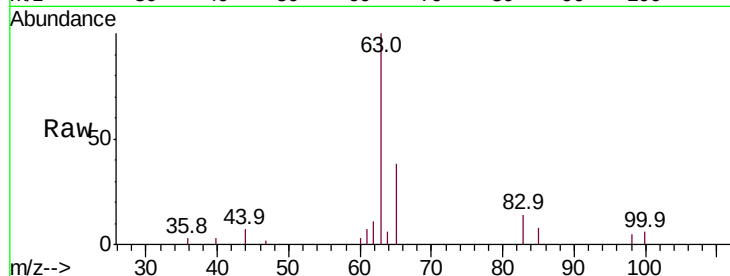
ClientSampled :

MDL01

Tot Ion:	63	Resp:	10773
Ion	Ratio	Lower	Upper
63	100		
65	38.1	22.0	40.8
83	14.1	9.5	17.7

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#20

cis-1,2-Dichloroethene

Concen: 2.988 ug/L

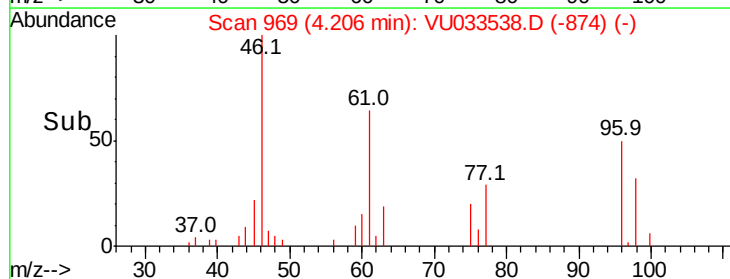
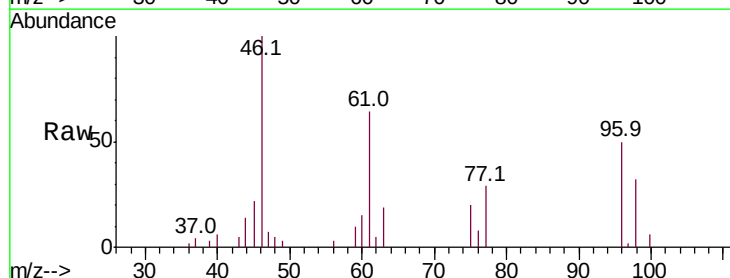
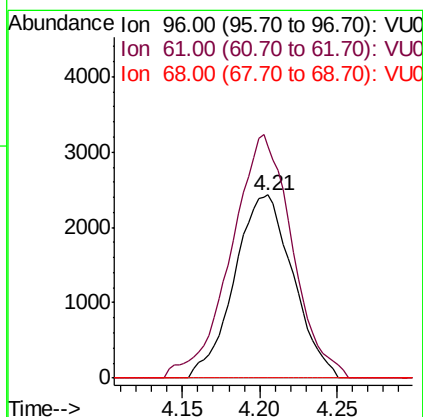
RT: 4.21 min Scan# 969

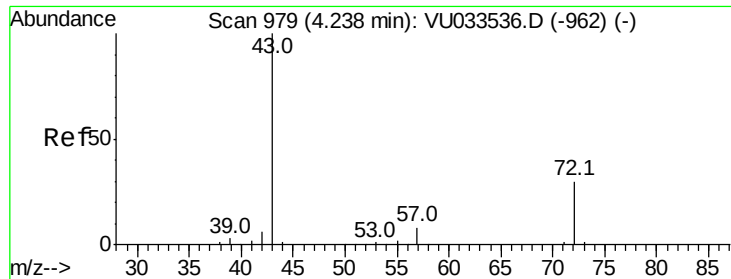
Delta R.T. 0.01 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Tgt Ion:	96	Resp:	6397
Ion	Ratio	Lower	Upper
96	100		
61	126.5	91.3	169.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 5.619 ug/L m

RT: 4.26 min Scan# 986

Delta R.T. 0.02 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 43 Resp: 9291

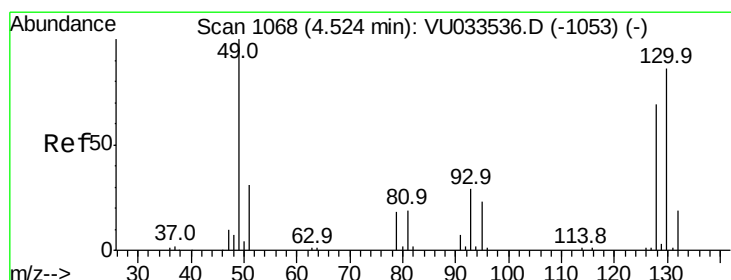
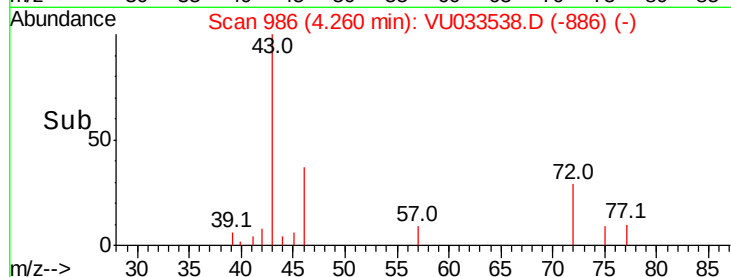
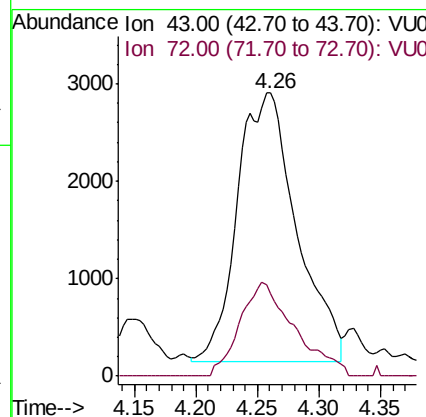
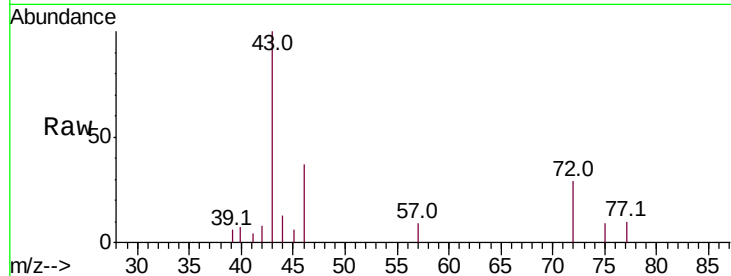
Ion Ratio Lower Upper

43 100

72 29.2 14.2 42.6

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#23

Bromochloromethane

Concen: 2.835 ug/L

RT: 4.53 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Tgt Ion: 128 Resp: 3167

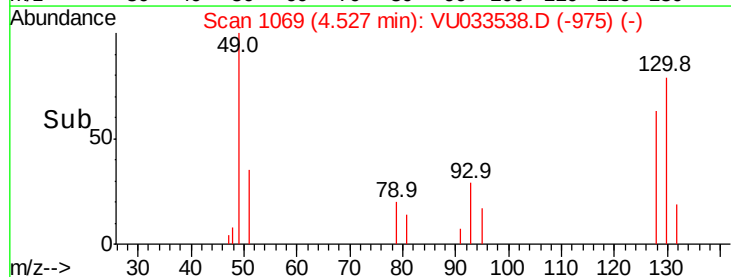
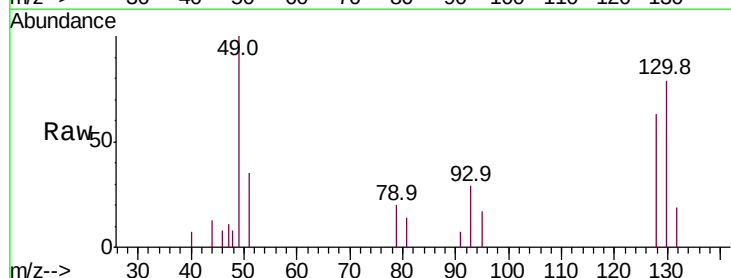
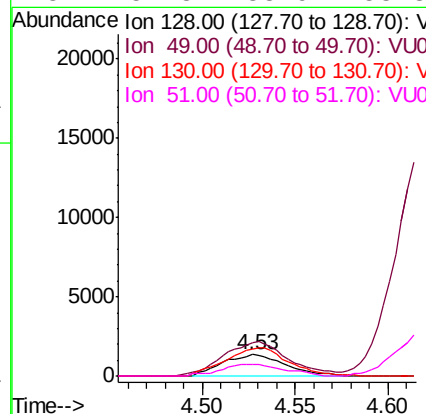
Ion Ratio Lower Upper

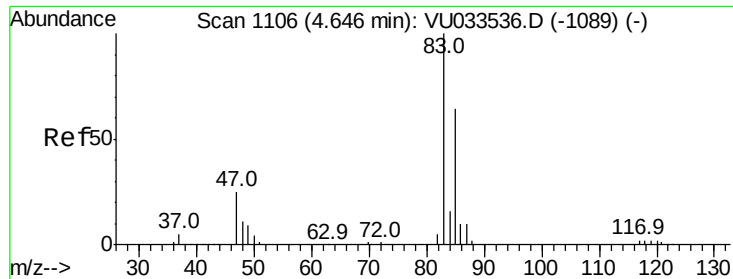
128 100

49 158.1 108.4 201.2

130 125.3 89.7 166.5

51 54.8 38.9 58.3





#25

Chloroform

Concen: 3.936 ug/L

RT: 4.65 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 83 Resp: 14829

Ion Ratio Lower Upper

83 100

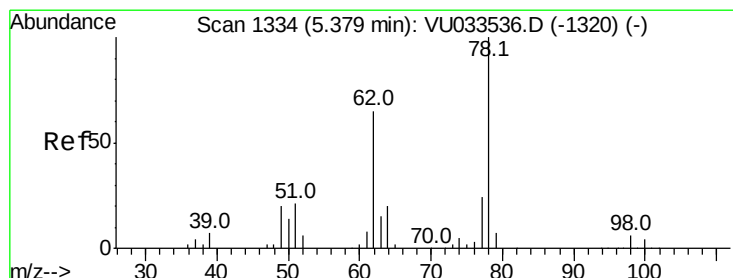
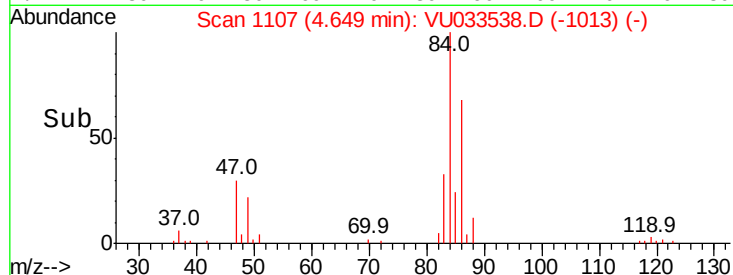
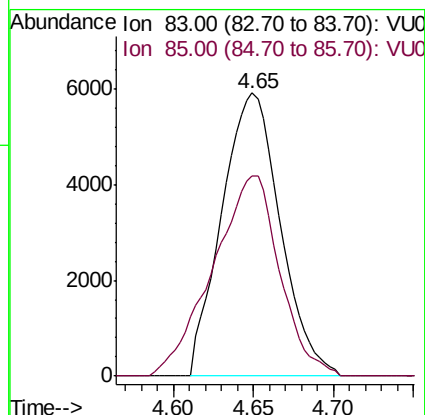
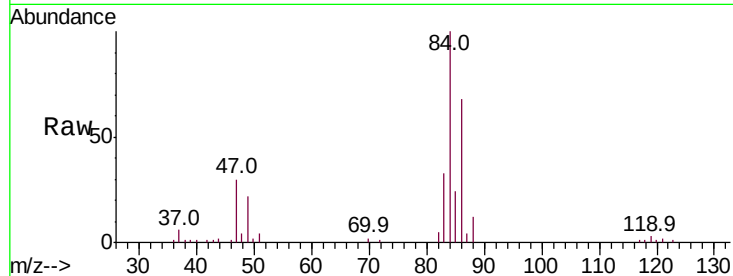
85 70.8 45.6 84.8

Manual Integrations

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#27

1,2-Dichloroethane

Concen: 3.184 ug/L

RT: 5.39 min Scan# 1336

Delta R.T. 0.01 min

Lab File: VU033538.D

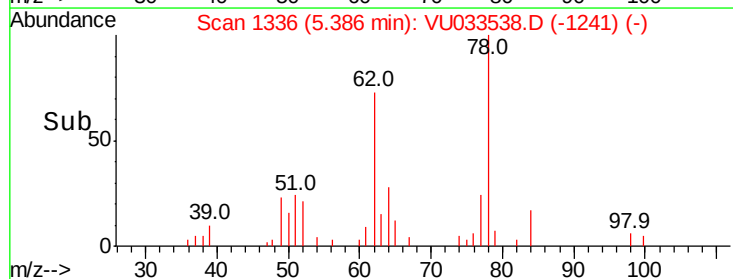
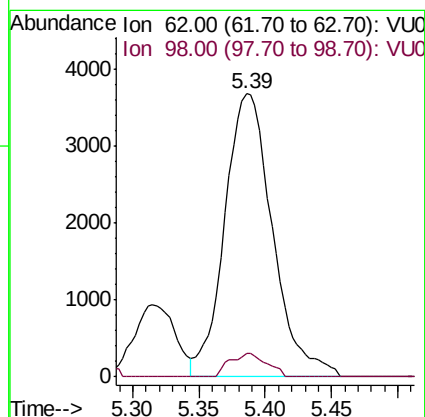
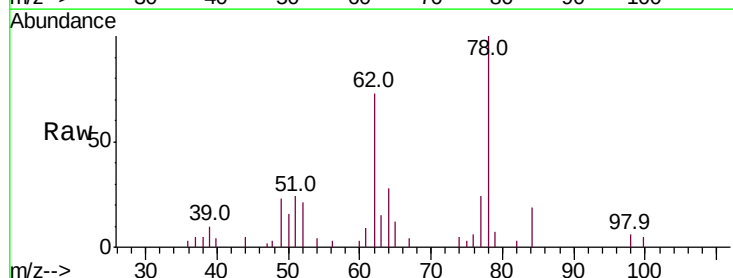
Acq: 01 Aug 2019 10:08

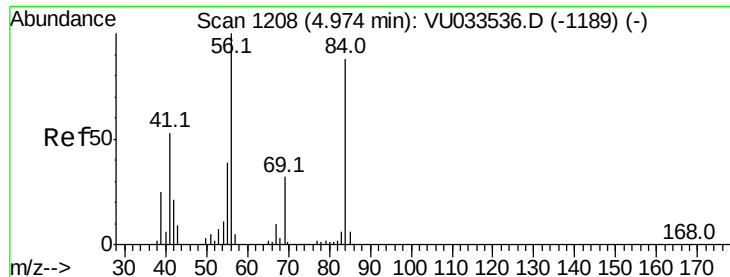
Tgt Ion: 62 Resp: 9236

Ion Ratio Lower Upper

62 100

98 8.2 7.2 10.8





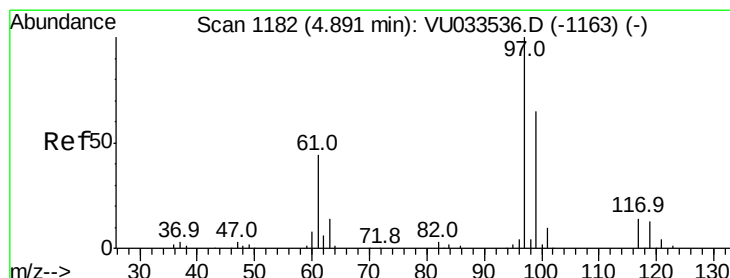
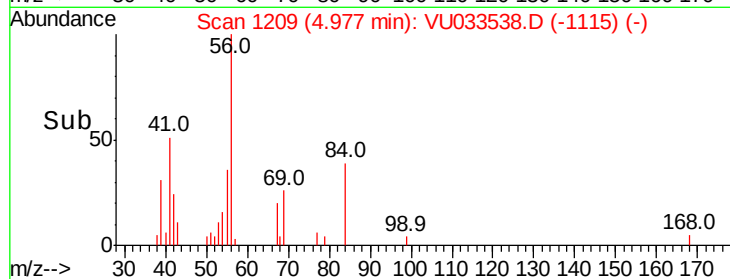
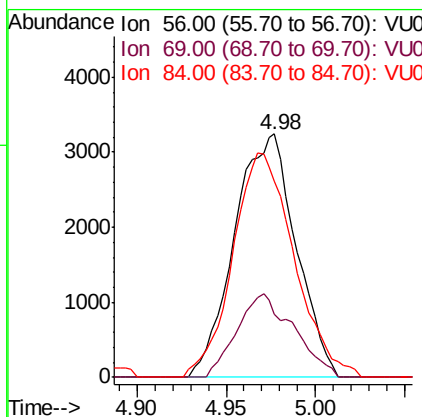
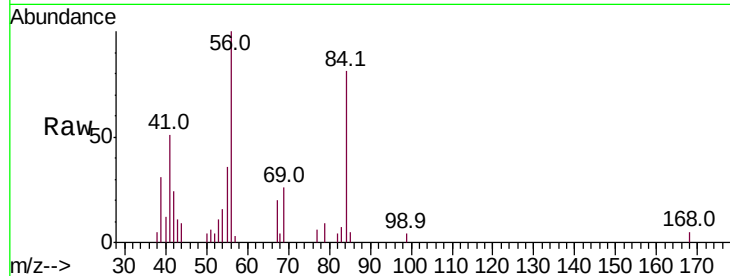
#29
Cyclohexane
Concen: 2.523 ug/L
RT: 4.98 min Scan# 1209
Delta R.T. 0.00 min
Lab File: VU033538.D
Acq: 01 Aug 2019 10:08

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
56	100		
69	22.5	25.0	37.6#
84	92.3	71.6	107.4

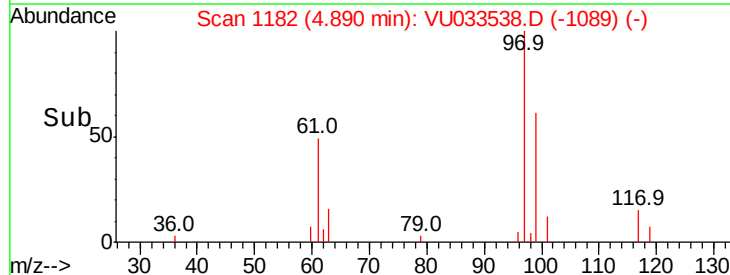
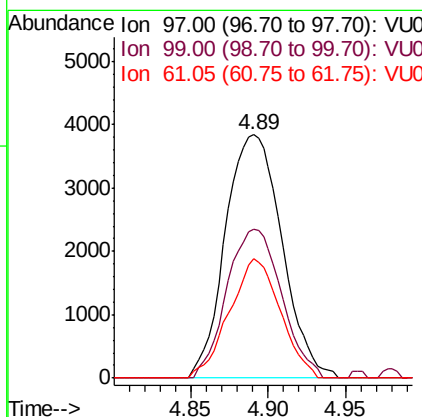
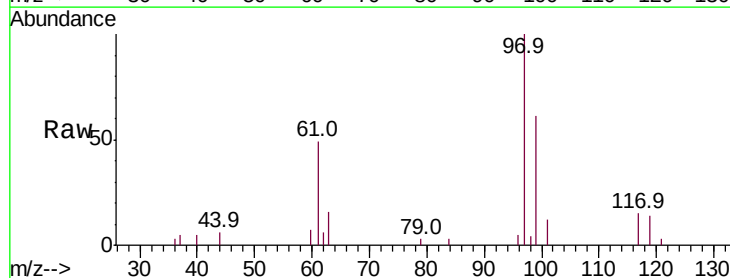
Manual Integrations
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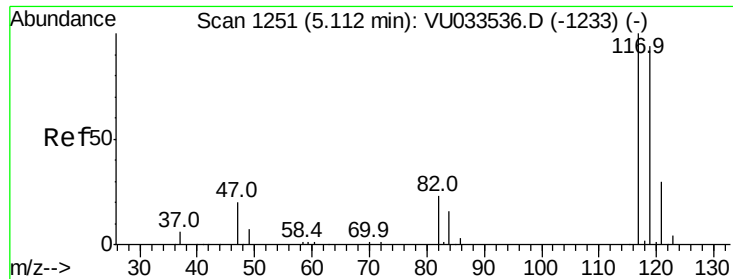
MMDadoda
8/2/2019 8:29:03 AM



#30
1,1,1-Trichloroethane
Concen: 2.998 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033538.D
Acq: 01 Aug 2019 10:08

Tgt Ion	Ratio	Lower	Upper
97	100		
99	59.2	51.1	76.7
61	44.3	35.5	53.3





#31

Carbon tetrachloride

Concen: 2.922 ug/L

RT: 5.12 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion:117 Resp: 8280

Ion Ratio Lower Upper

117 100

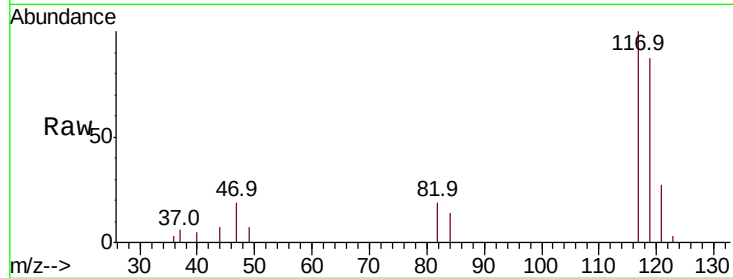
119 92.9 77.0 115.4

Manual Integrations

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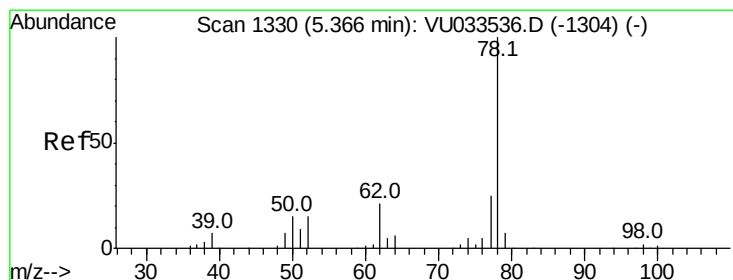
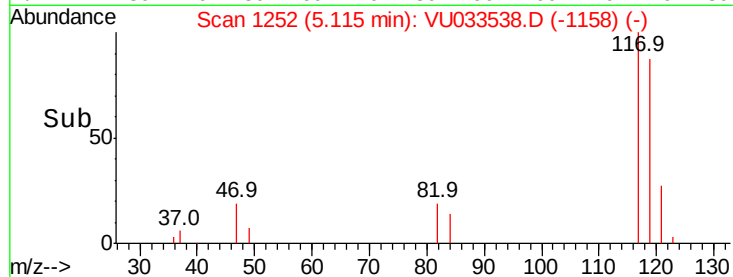
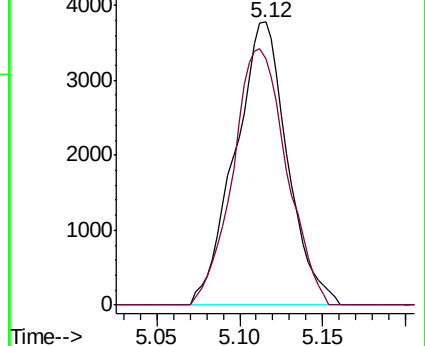
MMDadoda

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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 3.037 ug/L

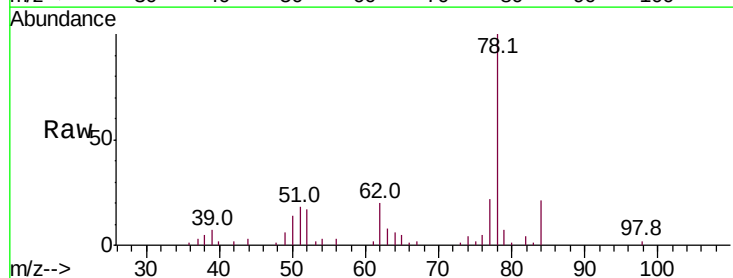
RT: 5.37 min Scan# 1331

Delta R.T. 0.00 min

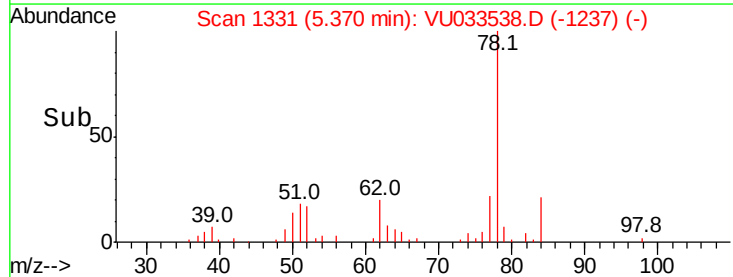
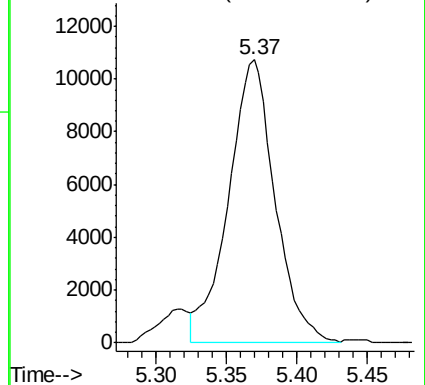
Lab File: VU033538.D

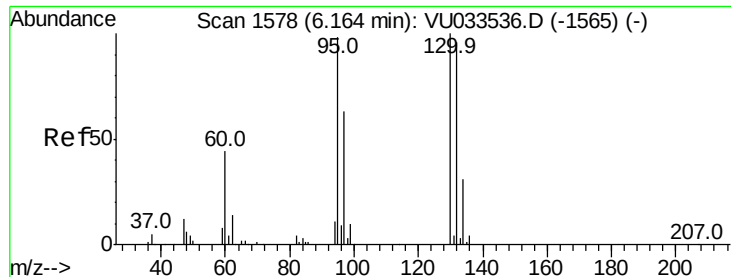
Acq: 01 Aug 2019 10:08

Tgt Ion: 78 Resp: 24777



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 2.988 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

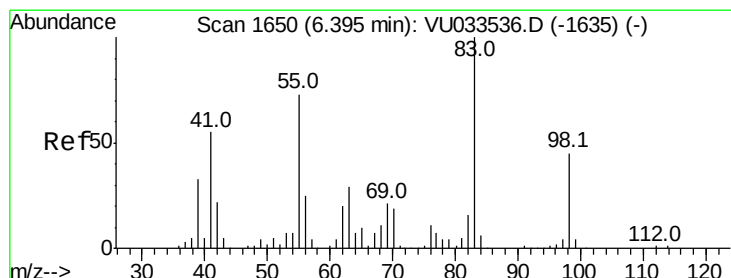
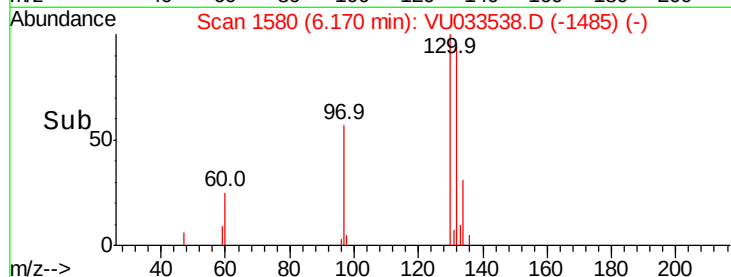
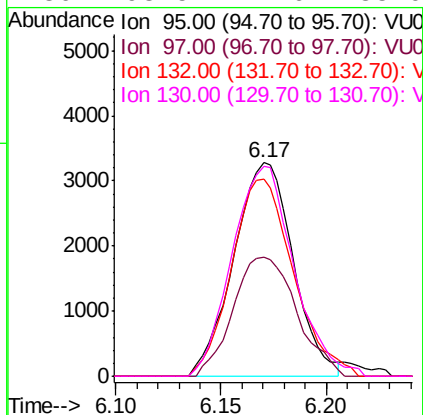
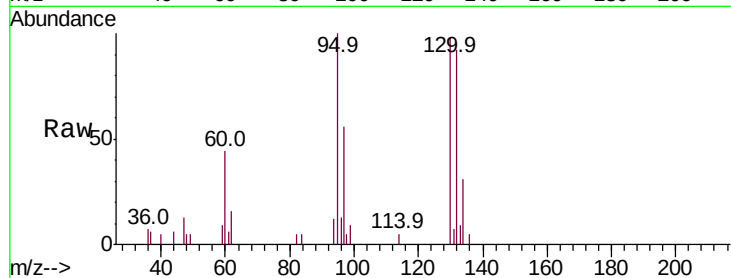
ClientSampled :

MDL01

Tot Ion:	95	Resp:	6431
Ion	Ratio	Lower	Upper
95	100		
97	55.7	44.7	83.1
132	92.4	66.8	124.0
130	98.5	71.6	133.0

Manual Integrations
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#35

Methylcyclohexane

Concen: 2.499 ug/L

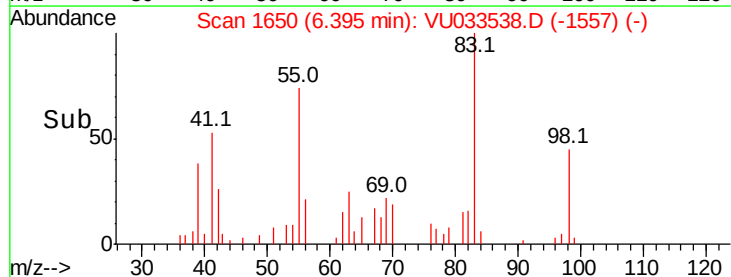
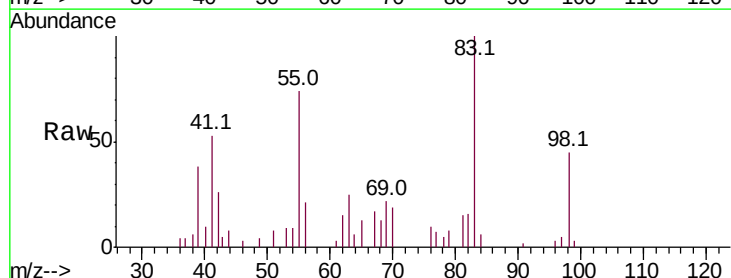
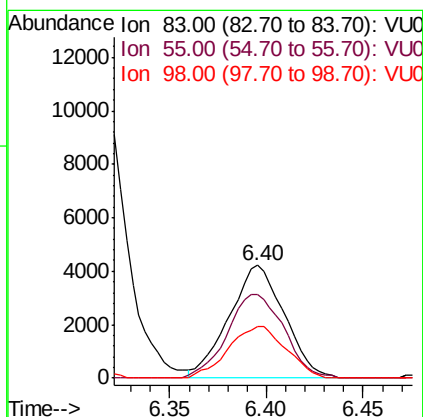
RT: 6.40 min Scan# 1650

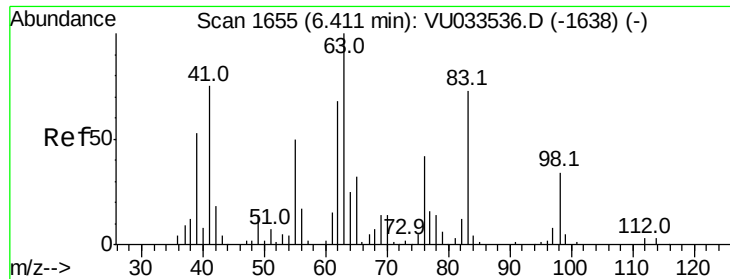
Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Tgt Ion:	83	Resp:	8395
Ion	Ratio	Lower	Upper
83	100		
55	75.8	60.2	90.4
98	47.5	36.5	54.7





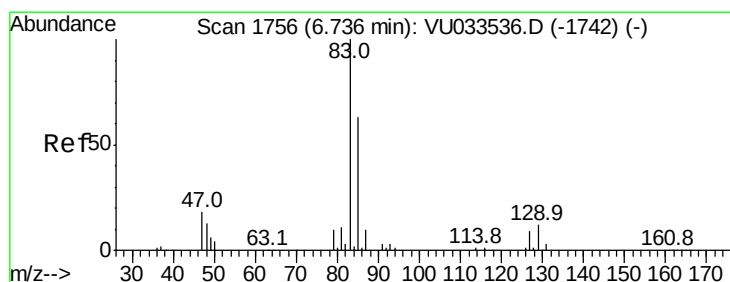
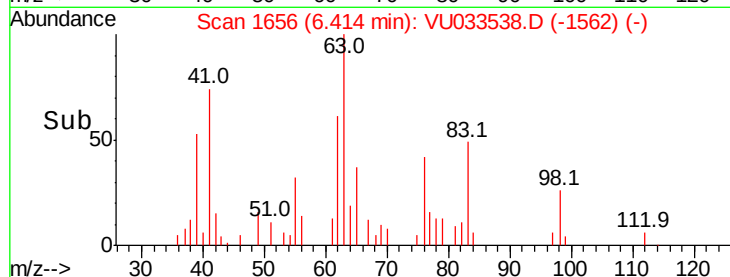
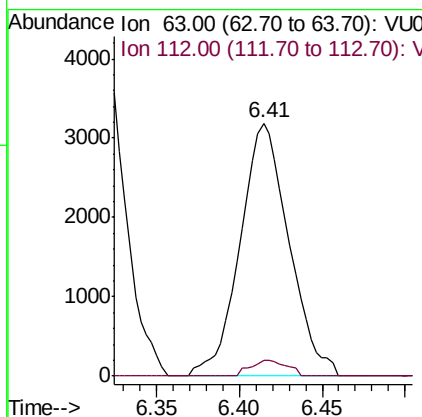
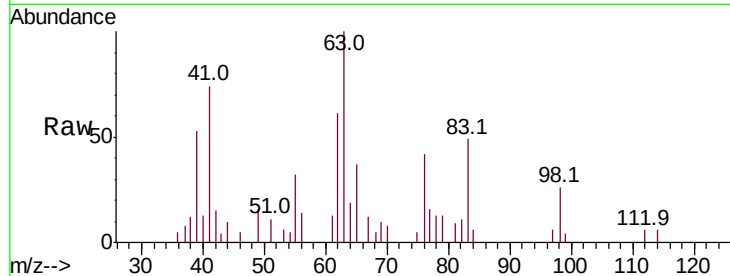
#37
 1,2-Dichloropropane
 Concen: 2.984 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU033538.D
 Acq: 01 Aug 2019 10:08

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion: 63 Resp: 6518
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.0 4.6

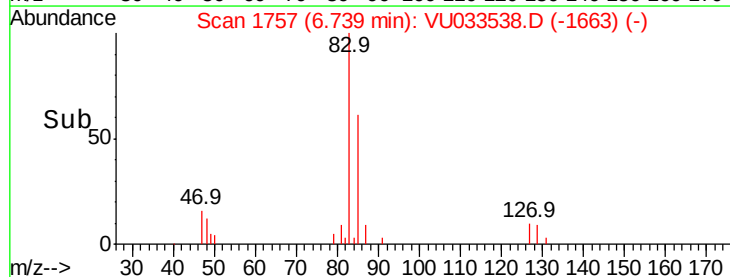
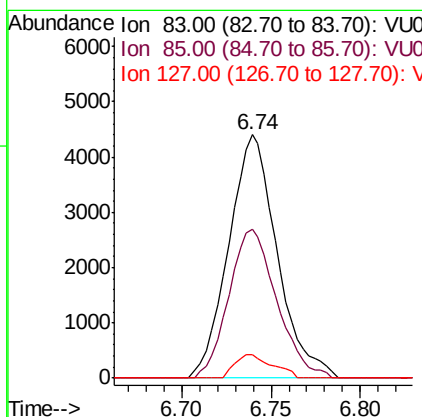
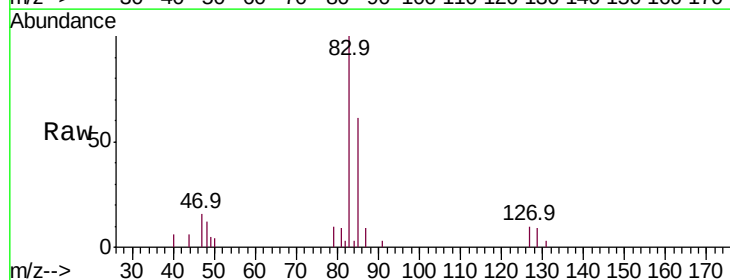
Manual Integrations
 APPROVED

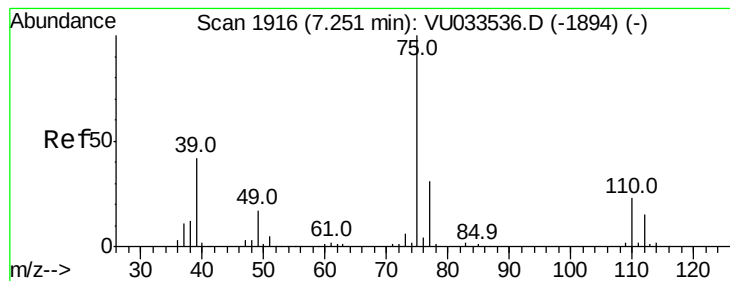
MMDadoda
 8/2/2019 8:29:03 AM



#38
 Bromodichloromethane
 Concen: 2.944 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033538.D
 Acq: 01 Aug 2019 10:08

Tgt Ion: 83 Resp: 8313
 Ion Ratio Lower Upper
 83 100
 85 60.9 45.1 83.9
 127 9.5 7.2 10.8





#39

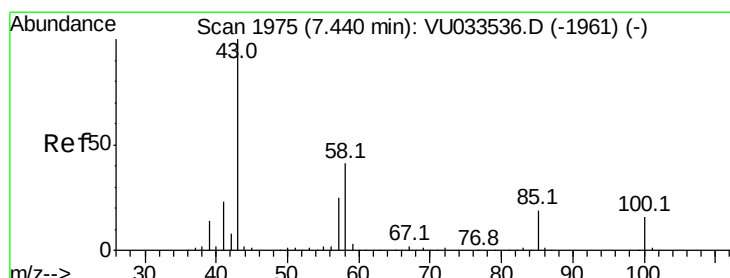
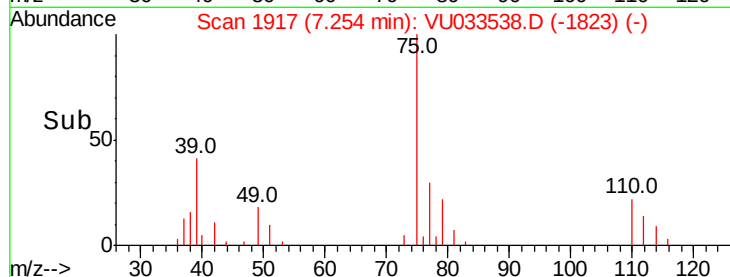
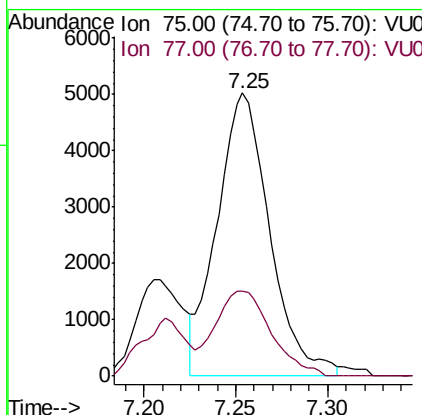
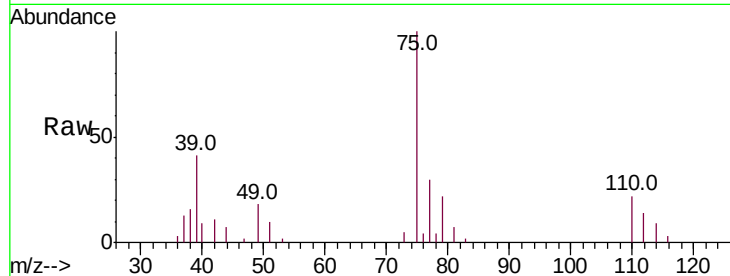
cis-1,3-Dichloropropene
 Concen: 2.947 ug/L m
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033538.D
 Acq: 01 Aug 2019 10:08

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.0	22.3	41.5

Manual Integrations
 APPROVED

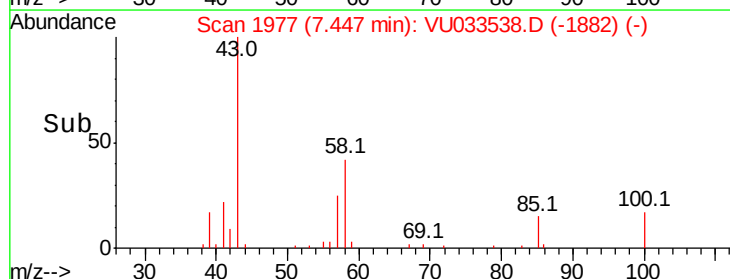
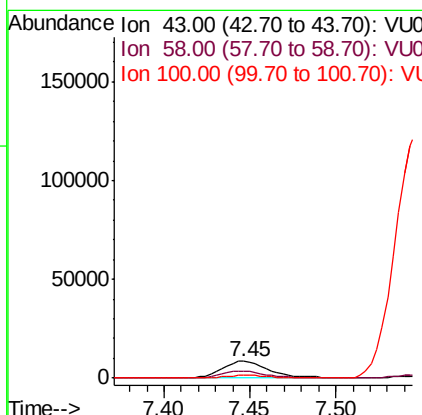
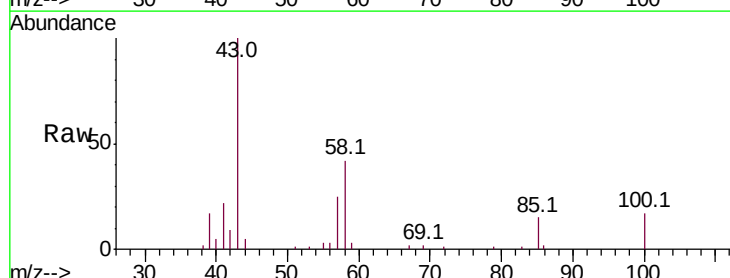
MMDadoda
 8/2/2019 8:29:03 AM

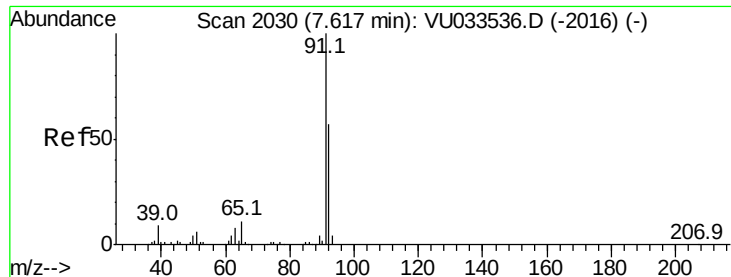


#40

4-Methyl-2-pentanone
 Concen: 5.425 ug/L
 RT: 7.45 min Scan# 1977
 Delta R.T. 0.01 min
 Lab File: VU033538.D
 Acq: 01 Aug 2019 10:08

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.2	32.8	49.2
100	14.8	12.9	19.3





#42

Toluene

Concen: 2.899 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 91 Resp: 25438

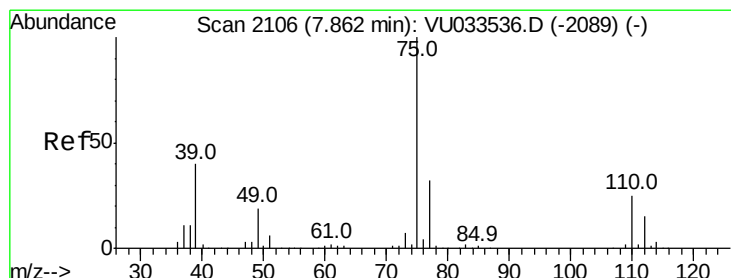
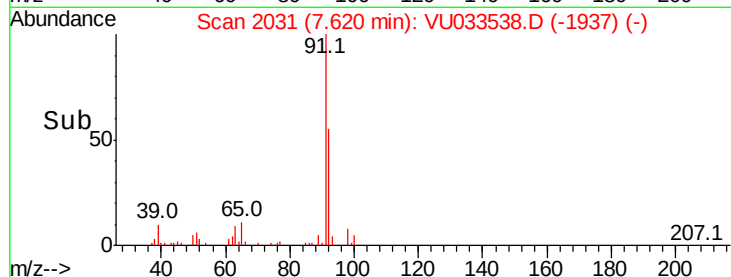
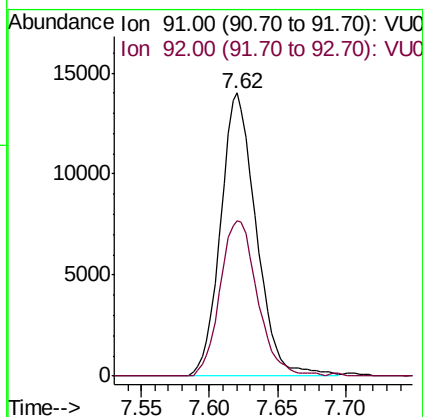
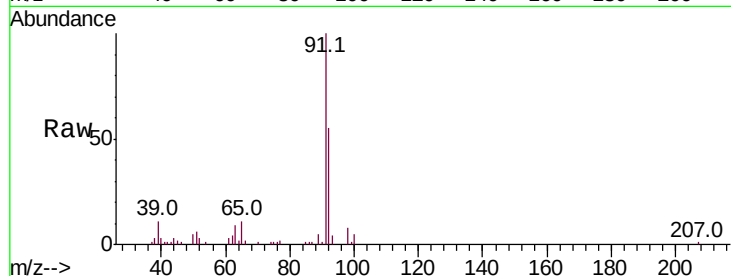
Ion Ratio Lower Upper

91 100

92 54.9 40.2 74.6

Manual Integrations
APPROVED

MMDadoda
8/2/2019 8:29:03 AM



#44

trans-1,3-Dichloropropene

Concen: 2.436 ug/L m

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033538.D

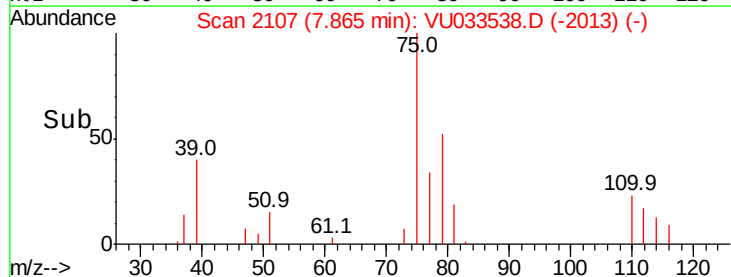
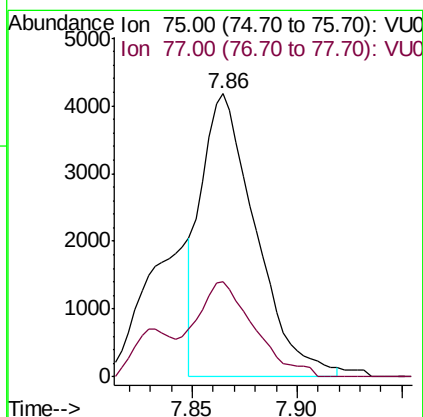
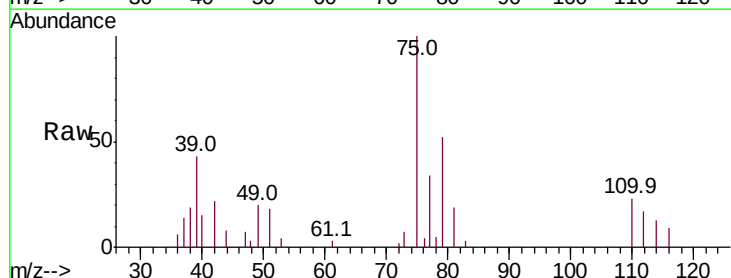
Acq: 01 Aug 2019 10:08

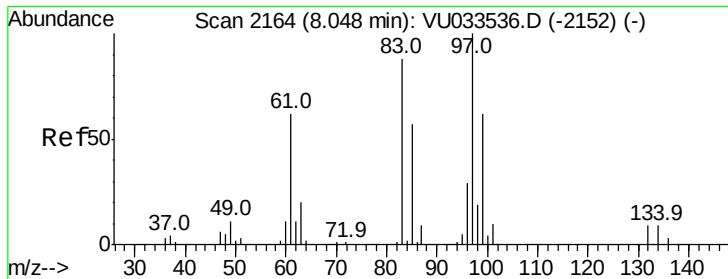
Tgt Ion: 75 Resp: 7505

Ion Ratio Lower Upper

75 100

77 33.7 22.7 42.1





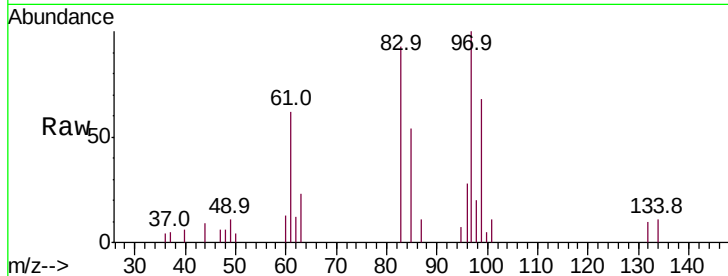
#45
 1,1,2-Trichloroethane
 Concen: 2.851 ug/L
 RT: 8.05 min Scan# 2166
 Delta R.T. 0.01 min
 Lab File: VU033538.D
 Acq: 01 Aug 2019 10:08

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion:	97	Resp:	5912
Ion	Ratio	Lower	Upper
97	100		
99	67.6	44.4	82.4
83	92.5	61.5	114.1
85	53.8	40.4	75.0

Manual Integrations
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MMDadoda
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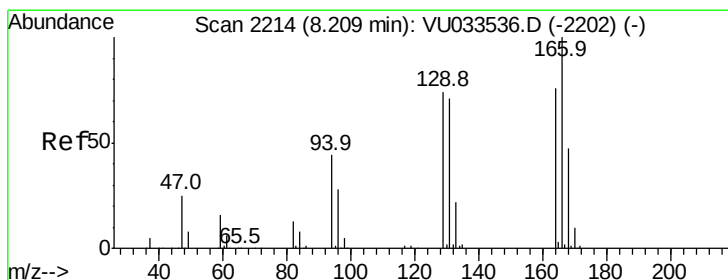
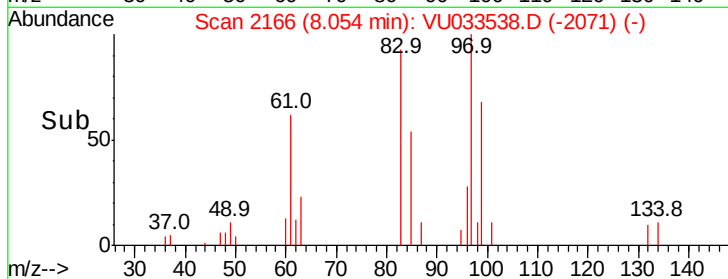
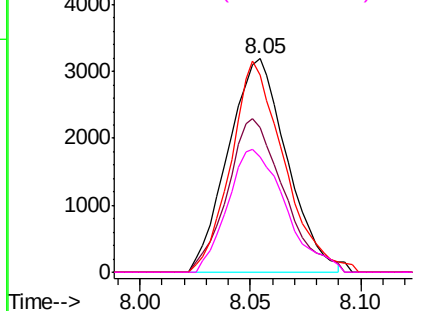
Abundance

Ion 97.00 (96.70 to 97.70): VU033538.D (-2166) (-)

Ion 99.00 (98.70 to 99.70): VU033538.D (-2166) (-)

Ion 83.00 (82.70 to 83.70): VU033538.D (-2166) (-)

Ion 85.00 (84.70 to 85.70): VU033538.D (-2166) (-)



#46
 Tetrachloroethene
 Concen: 2.751 ug/L
 RT: 8.21 min Scan# 2215
 Delta R.T. 0.00 min
 Lab File: VU033538.D
 Acq: 01 Aug 2019 10:08

Tgt Ion:	164	Resp:	4834
Ion	Ratio	Lower	Upper
164	100		
129	80.4	65.5	121.7
131	86.0	63.3	117.7
166	119.3	88.2	163.8

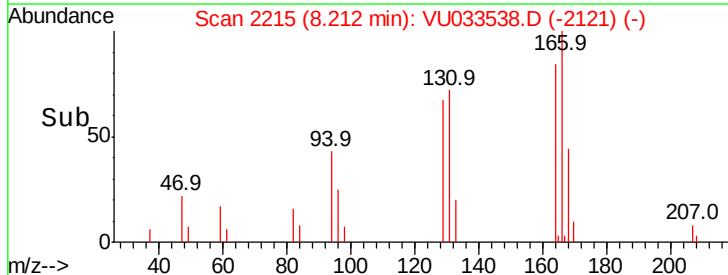
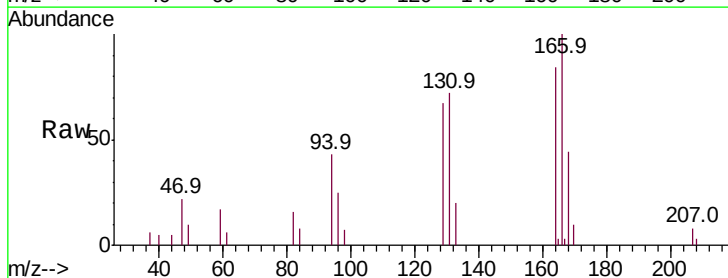
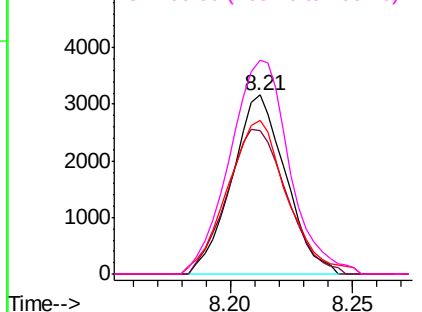
Abundance

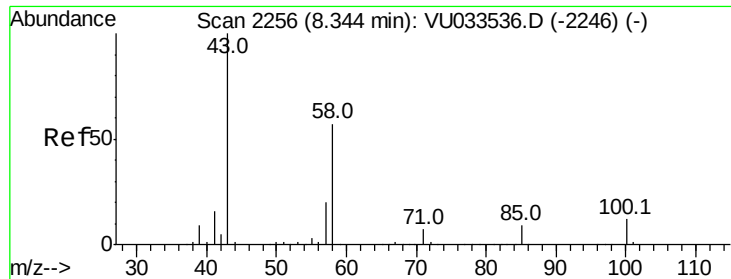
Ion 164.00 (163.70 to 164.70): VU033538.D (-2214) (-)

Ion 129.00 (128.70 to 129.70): VU033538.D (-2214) (-)

Ion 131.00 (130.70 to 131.70): VU033538.D (-2214) (-)

Ion 166.00 (165.70 to 166.70): VU033538.D (-2214) (-)





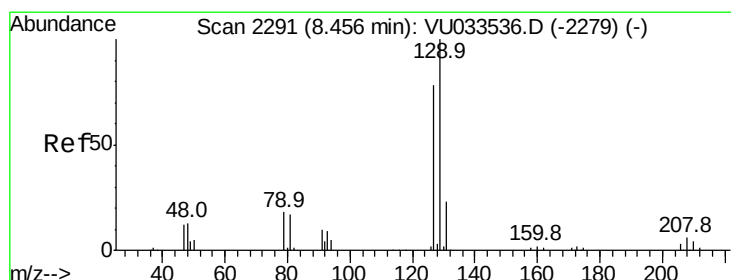
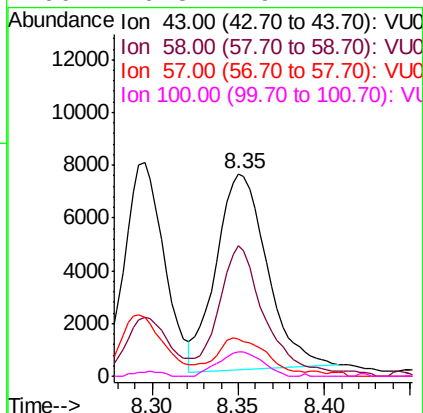
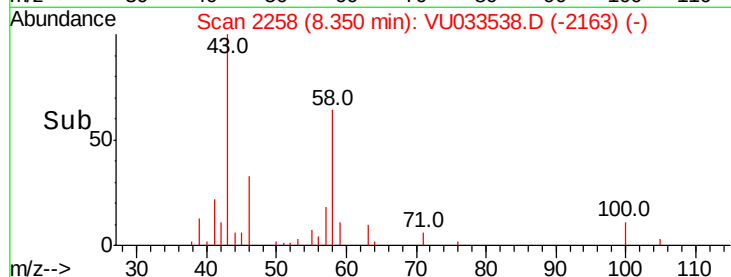
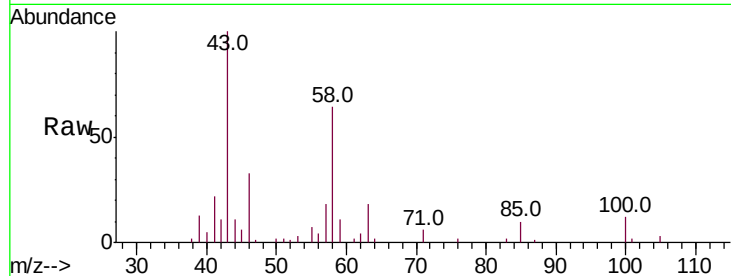
#48
2-Hexanone
Concen: 6.288 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033538.D
Acq: 01 Aug 2019 10:08

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.4	45.8	68.6
57	18.4	15.8	23.6
100	10.8	9.4	14.2

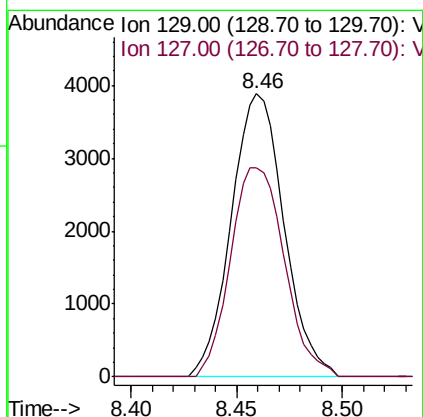
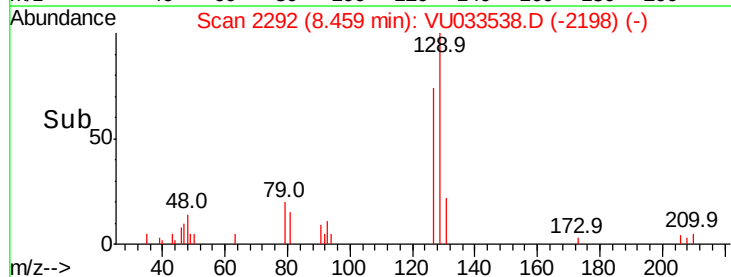
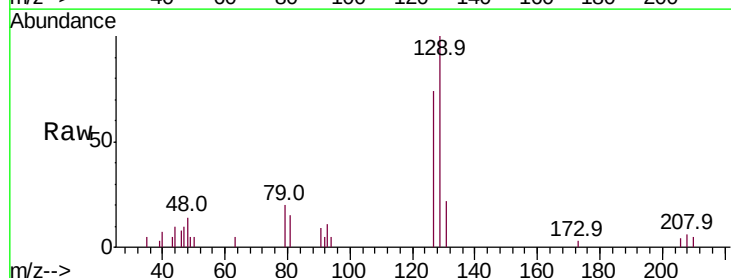
Manual Integrations
APPROVED

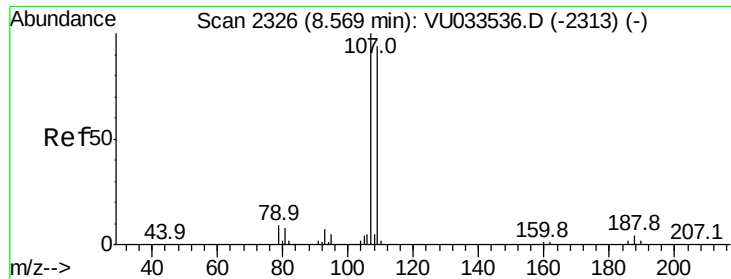
MMDadoda
8/2/2019 8:29:03 AM



#49
Dibromochloromethane
Concen: 2.866 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033538.D
Acq: 01 Aug 2019 10:08

Tgt Ion	Ratio	Lower	Upper
129	100		
127	74.0	53.8	99.8





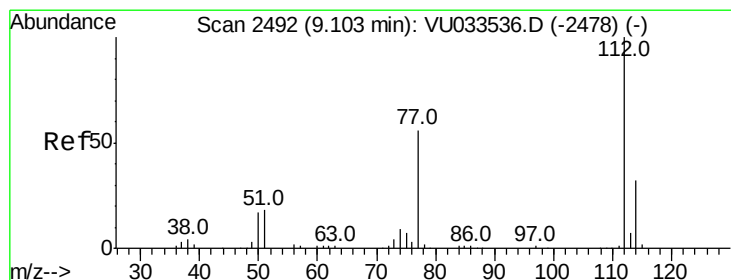
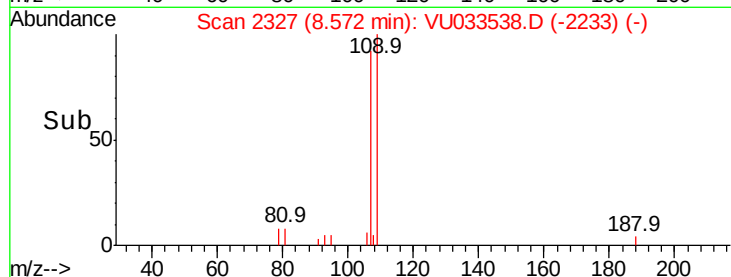
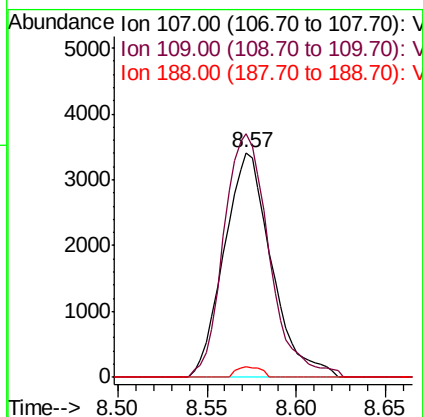
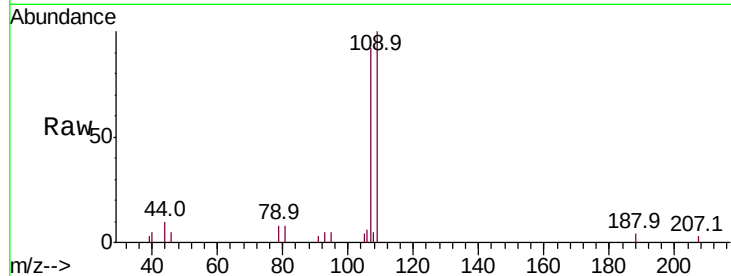
#50
1,2-Dibromoethane
Concen: 2.747 ug/L
RT: 8.57 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VU033538.D
Acq: 01 Aug 2019 10:08

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion	Ratio	Resp	Lower	Upper
107	100	6310		
109	108.5	66.8	124.0	
188	4.7	3.0	4.4#	

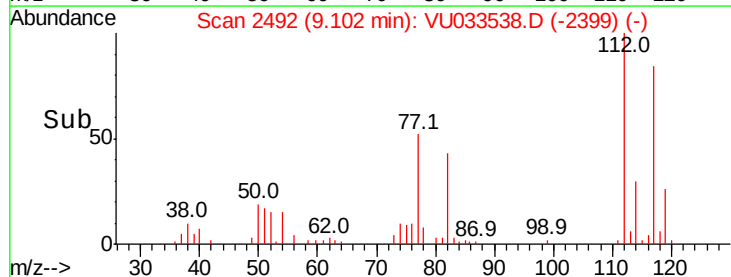
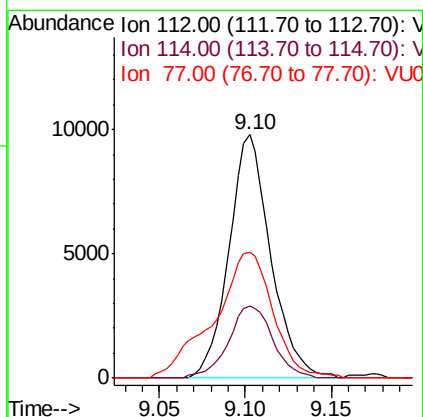
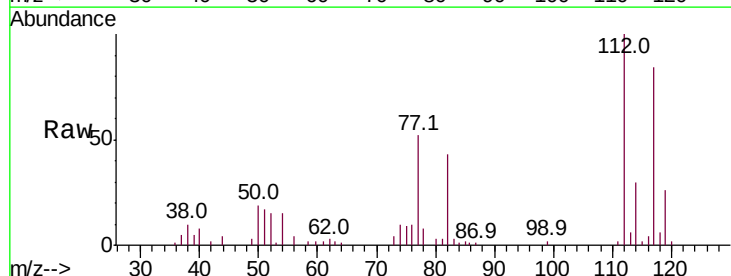
Manual Integrations
APPROVED

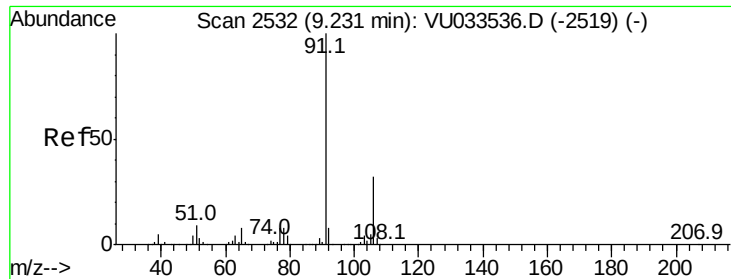
MMDadoda
8/2/2019 8:29:03 AM



#51
Chlorobenzene
Concen: 2.864 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. -0.00 min
Lab File: VU033538.D
Acq: 01 Aug 2019 10:08

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	16453		
114	29.6	22.3	41.5	
77	51.6	45.6	68.4	





#52

Ethylbenzene

Concen: 2.621 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 91 Resp: 24764

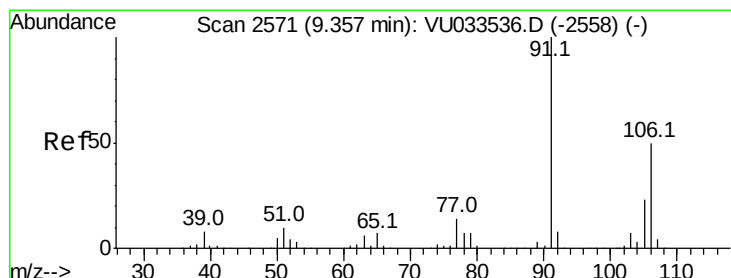
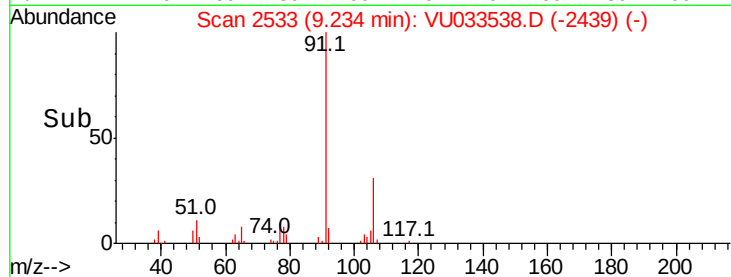
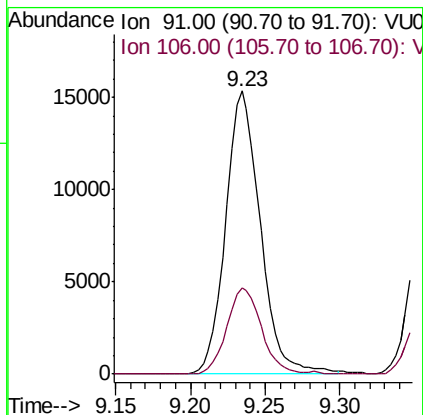
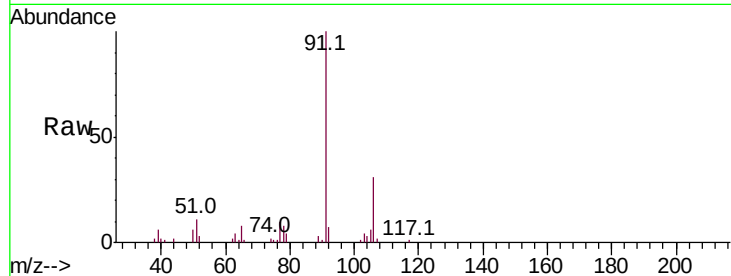
Ion Ratio Lower Upper

91 100

106 30.5 22.2 41.2

Manual Integrations
APPROVED

MMDadoda
8/2/2019 8:29:03 AM



#53

m,p-Xylene

Concen: 2.442 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033538.D

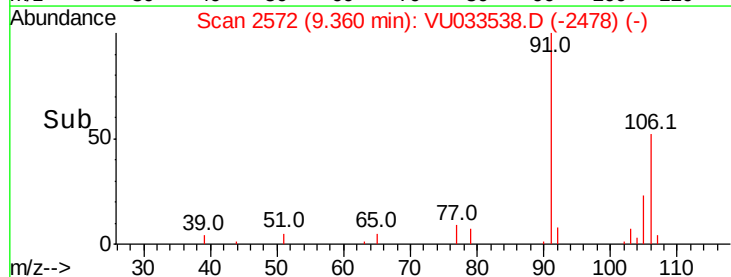
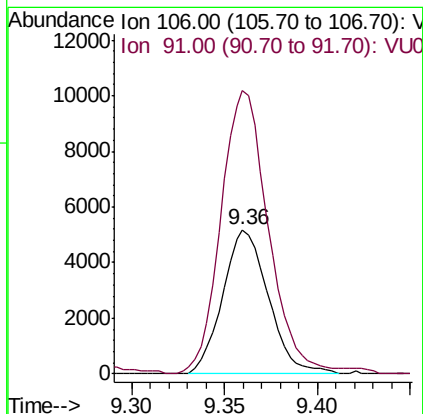
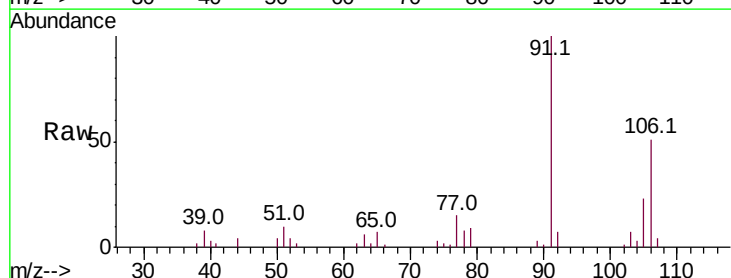
Acq: 01 Aug 2019 10:08

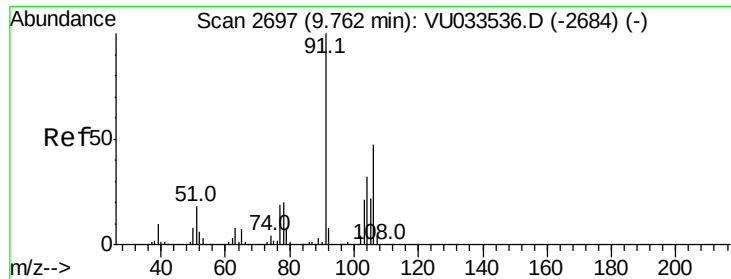
Tgt Ion: 106 Resp: 8858

Ion Ratio Lower Upper

106 100

91 196.5 143.0 265.6





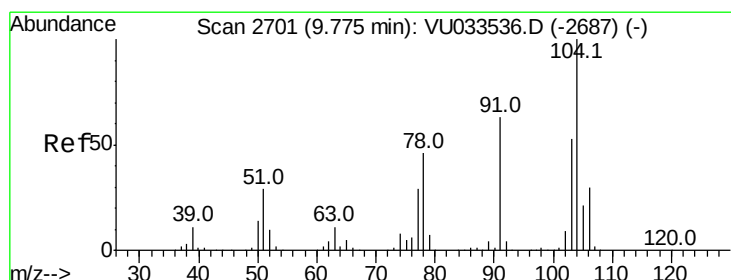
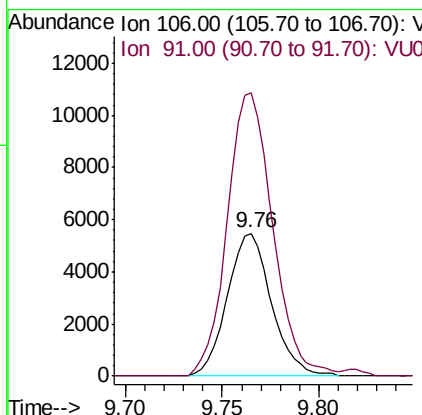
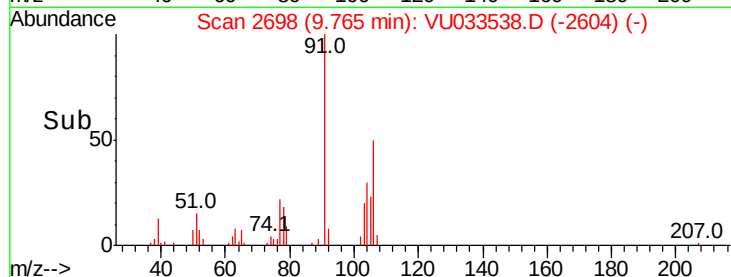
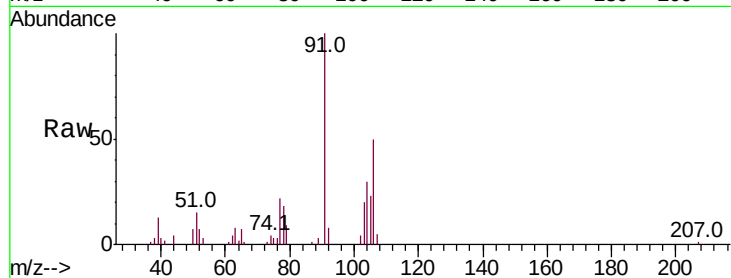
#54
o-xylene
Concen: 2.470 ug/L
RT: 9.76 min Scan# 2698
Delta R.T. 0.00 min
Lab File: VU033538.D
Acq: 01 Aug 2019 10:08

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion:106 Resp: 8689
Ion Ratio Lower Upper
106 100
91 198.5 148.4 275.6

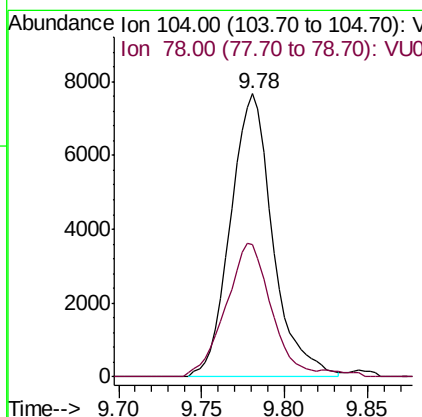
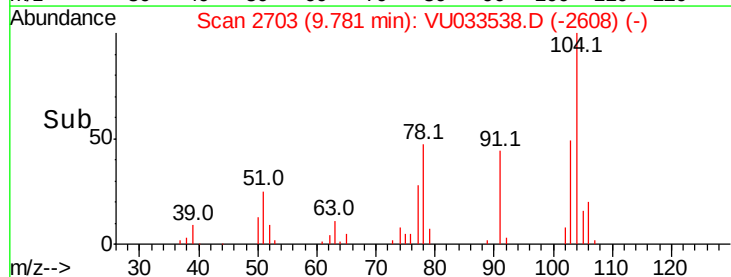
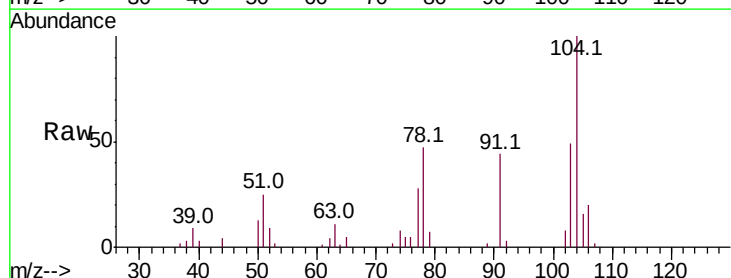
Manual Integrations
APPROVED

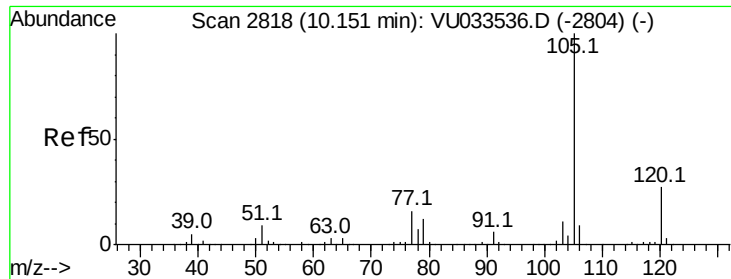
MMDadoda
8/2/2019 8:29:03 AM



#55
Styrene
Concen: 2.279 ug/L
RT: 9.78 min Scan# 2703
Delta R.T. 0.01 min
Lab File: VU033538.D
Acq: 01 Aug 2019 10:08

Tgt Ion:104 Resp: 13616
Ion Ratio Lower Upper
104 100
78 46.7 32.2 59.8





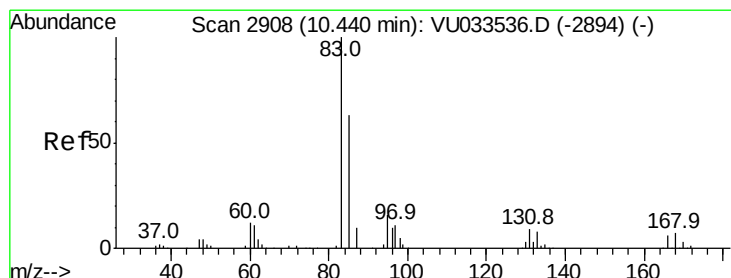
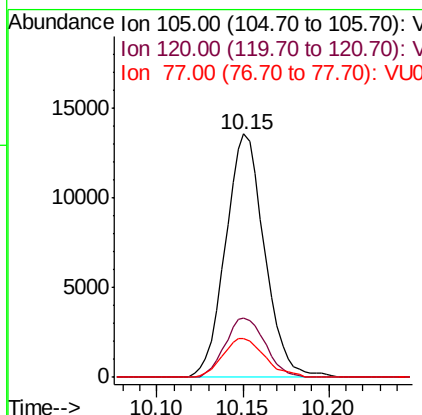
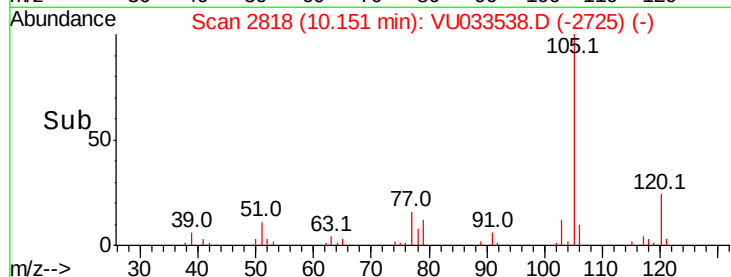
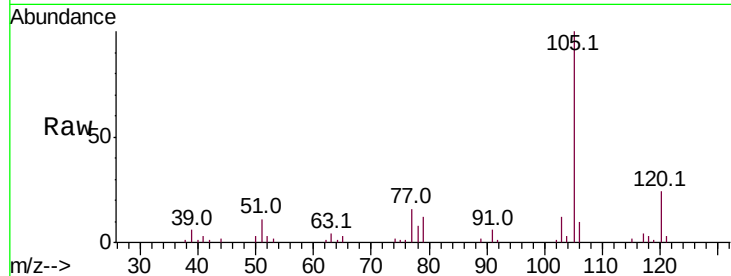
#56
Isopropylbenzene
Concen: 2.335 ug/L
RT: 10.15 min Scan# 2818
Delta R.T. -0.00 min
Lab File: VU033538.D
Acq: 01 Aug 2019 10:08

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion:	105	Resp:	21464
Ion Ratio	Lower	Upper	
105	100		
120	24.9	21.4	32.0
77	17.1	12.5	18.7

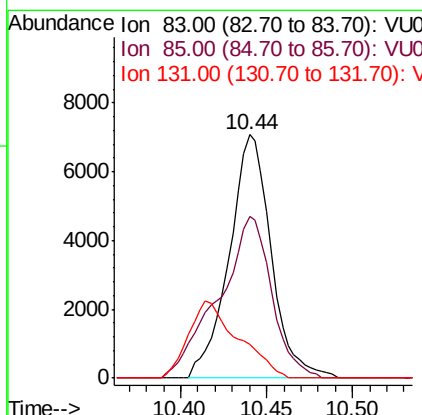
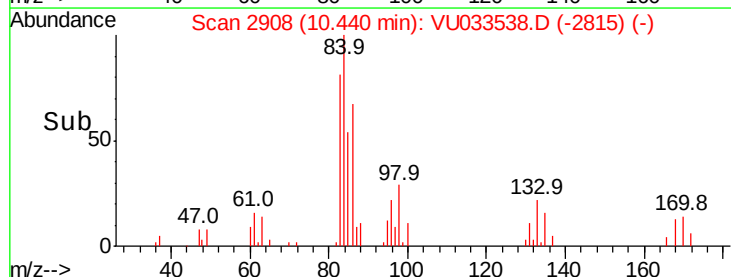
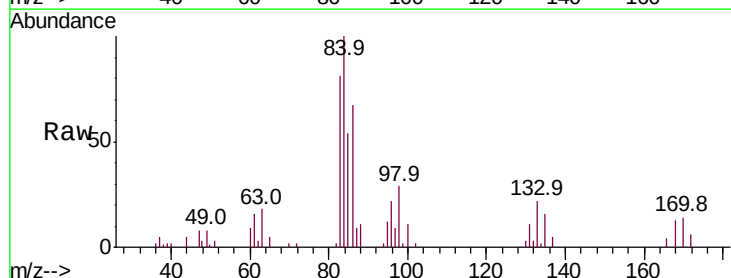
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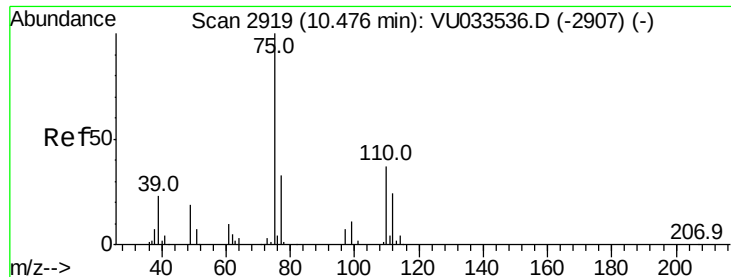
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#58
1,1,2,2-Tetrachloroethane
Concen: 3.213 ug/L
RT: 10.44 min Scan# 2908
Delta R.T. -0.00 min
Lab File: VU033538.D
Acq: 01 Aug 2019 10:08

Tgt Ion:	83	Resp:	12017
Ion Ratio	Lower	Upper	
83	100		
85	66.7	45.4	84.4
131	13.8	7.9	11.9#





#59

1,2,3-Trichloropropane

Concen: 3.043 ug/L

RT: 10.48 min Scan# 2920

Delta R.T. 0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 75 Resp: 8772

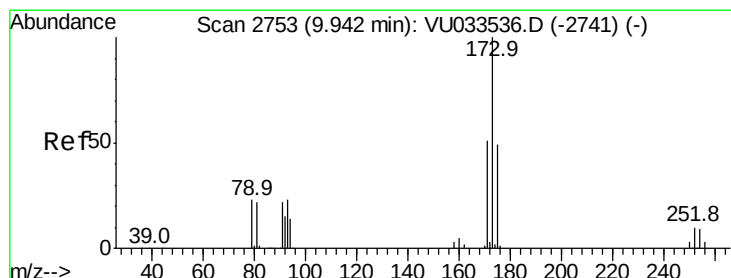
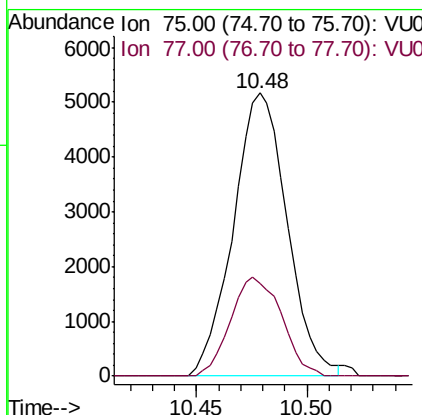
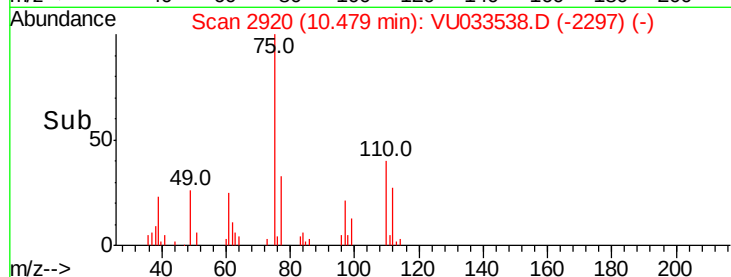
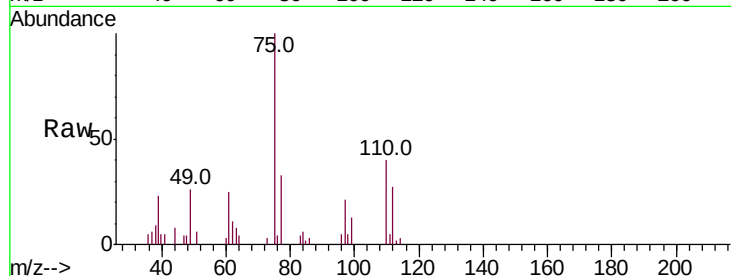
Ion Ratio Lower Upper

75 100

77 33.2 25.8 38.6

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#61

Bromoform

Concen: 2.975 ug/L

RT: 9.94 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

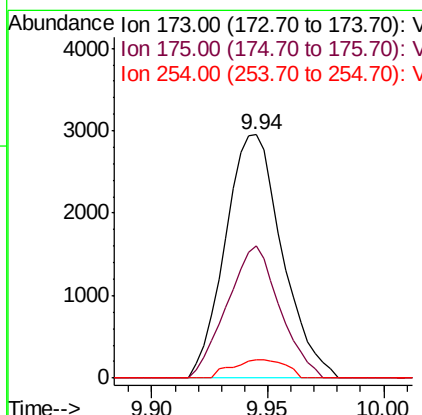
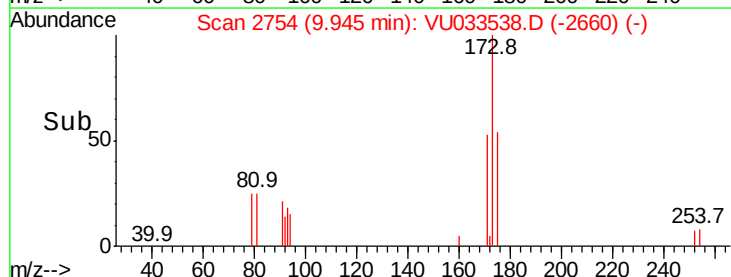
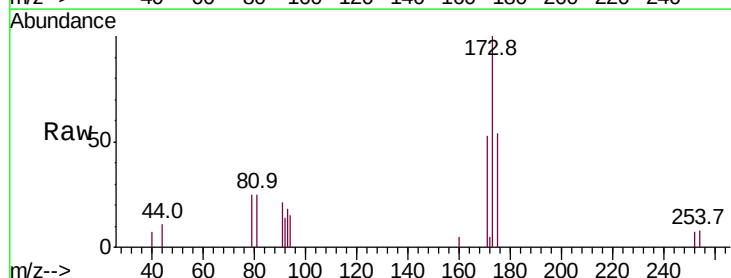
Tgt Ion: 173 Resp: 5018

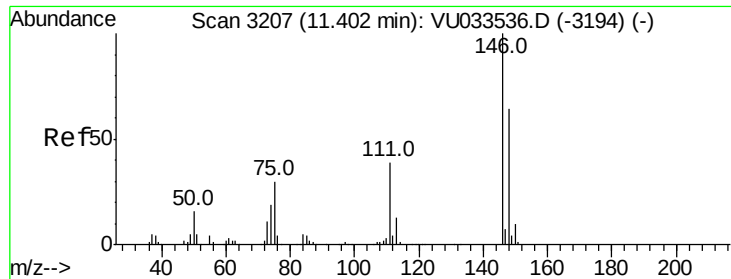
Ion Ratio Lower Upper

173 100

175 50.5 38.7 58.1

254 5.6 7.5 11.3#





#62

1,3-Dichlorobenzene

Concen: 2.752 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

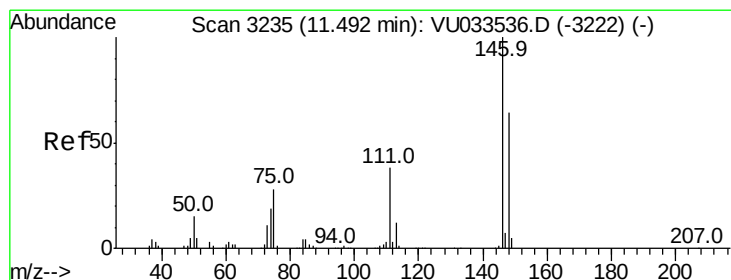
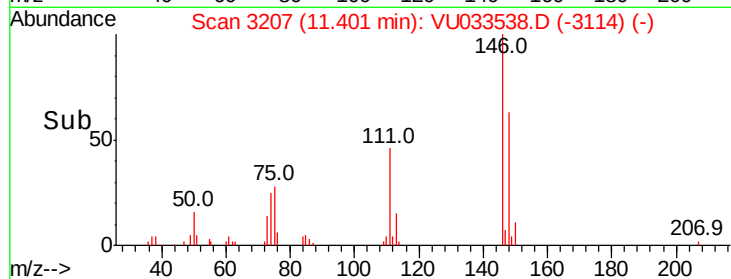
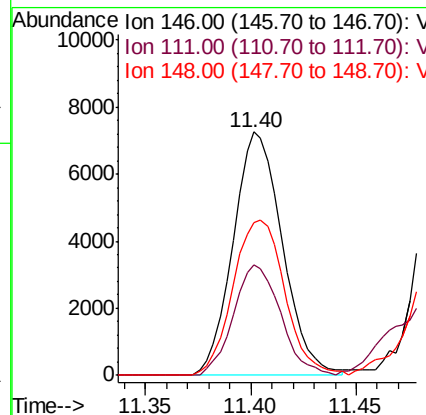
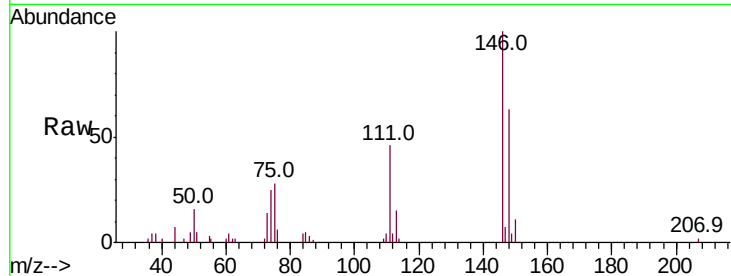
ClientSampled :

MDL01

Tot Ion:	146	Resp:	11802
Ion Ratio	Lower	Upper	
146	100		
111	45.6	28.1	52.1
148	62.9	45.0	83.6

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#63

1,4-Dichlorobenzene

Concen: 2.980 ug/L

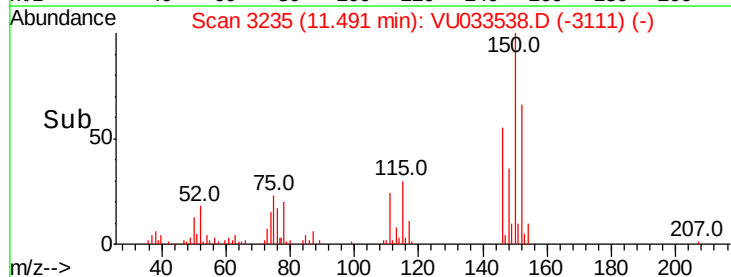
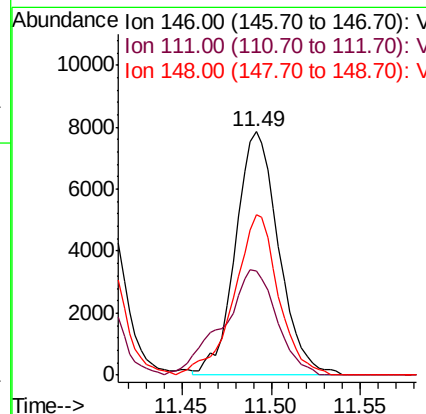
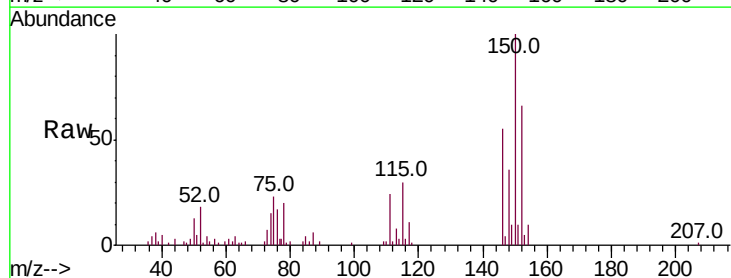
RT: 11.49 min Scan# 3235

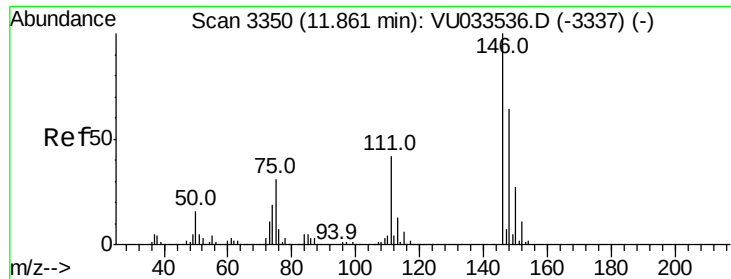
Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Tgt Ion:	146	Resp:	13274
Ion Ratio	Lower	Upper	
146	100		
111	42.9	27.2	50.4
148	66.0	44.5	82.7





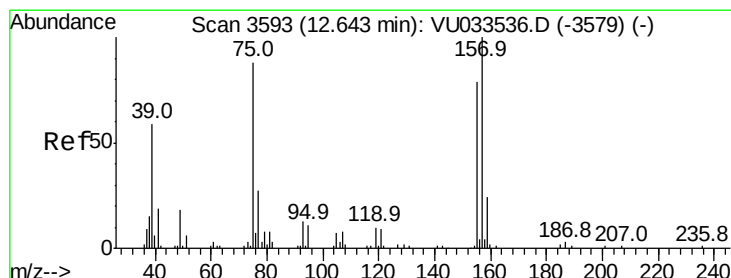
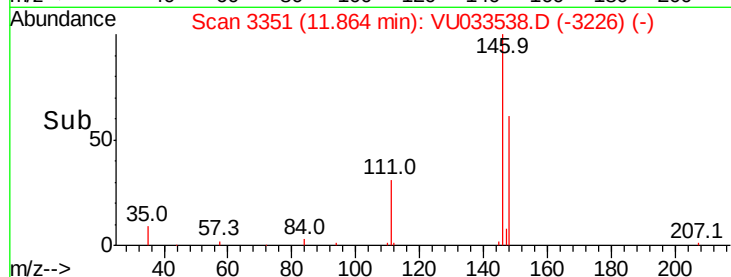
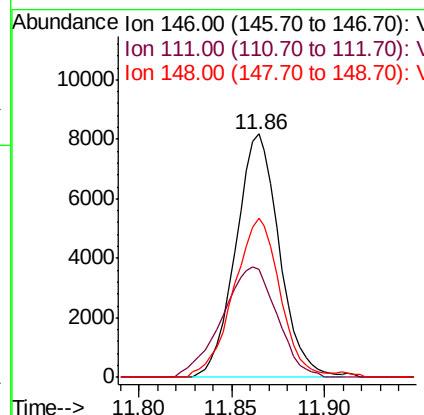
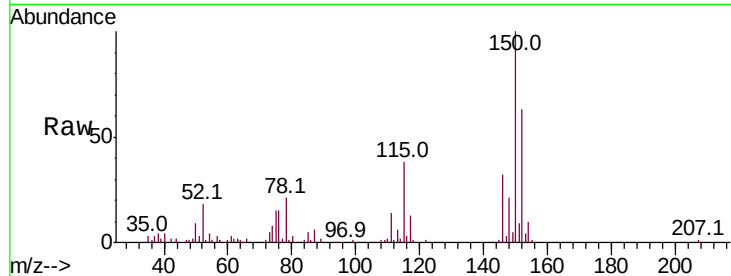
#65
 1,2-Dichlorobenzene
 Concen: 3.089 ug/L
 RT: 11.86 min Scan# 3351
 Delta R.T. 0.00 min
 Lab File: VU033538.D
 Acq: 01 Aug 2019 10:08

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.1	31.7	47.5
148	65.2	50.3	75.5

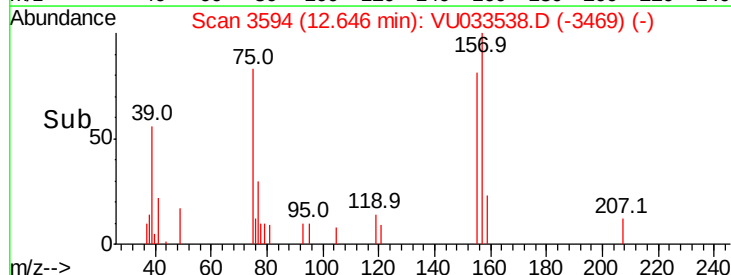
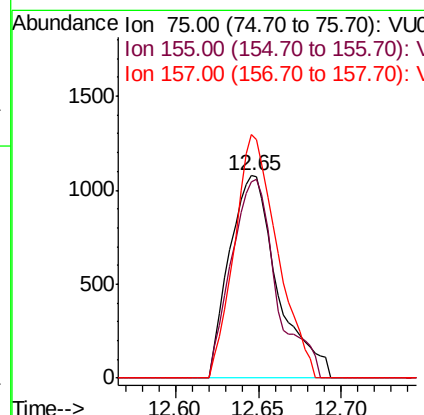
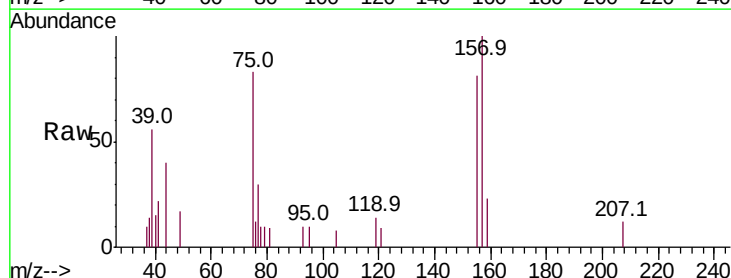
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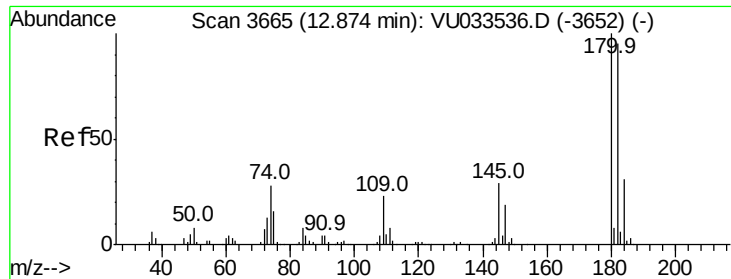
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.710 ug/L
 RT: 12.65 min Scan# 3594
 Delta R.T. 0.00 min
 Lab File: VU033538.D
 Acq: 01 Aug 2019 10:08

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.1	69.4	104.0
157	120.3	91.8	137.8





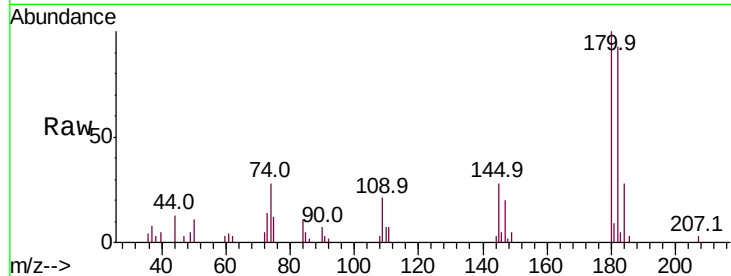
#67
 1,3,5-Trichlorobenzene
 Concen: 2.631 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033538.D
 Acq: 01 Aug 2019 10:08

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion:	180	Resp:	9102
Ion Ratio	Lower	Upper	
180	100		
182	95.7	75.6	113.4
184	26.9	24.2	36.2
145	26.7	22.7	34.1

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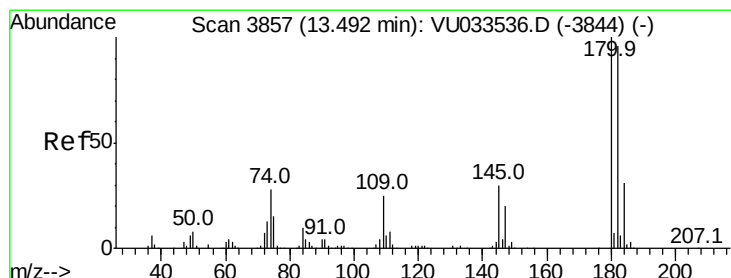
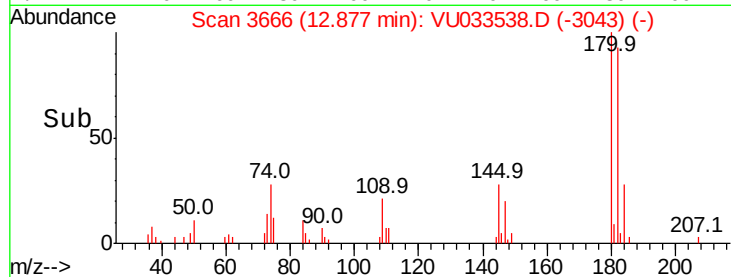
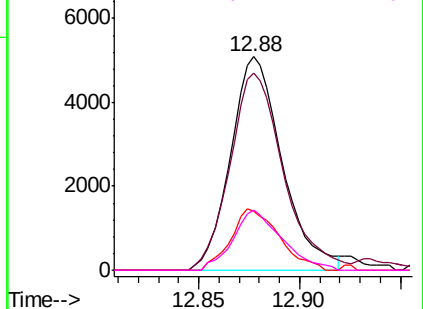
Abundance

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: 2.084 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.01 min
 Lab File: VU033538.D
 Acq: 01 Aug 2019 10:08

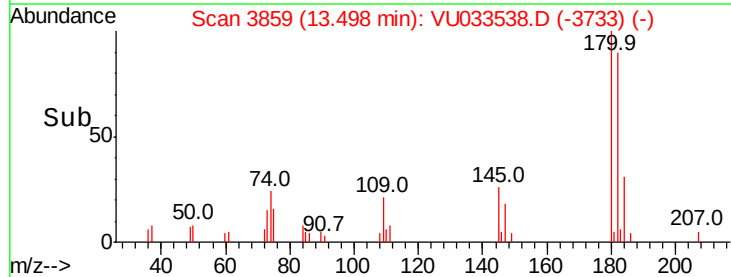
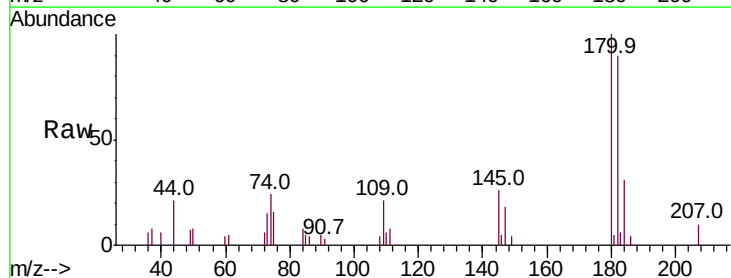
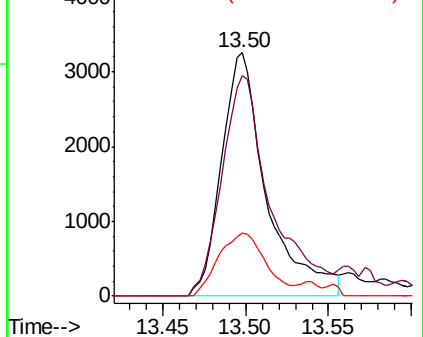
Tgt Ion:	180	Resp:	6160
Ion Ratio	Lower	Upper	
180	100		
182	98.6	75.8	113.8
145	26.9	24.3	36.5

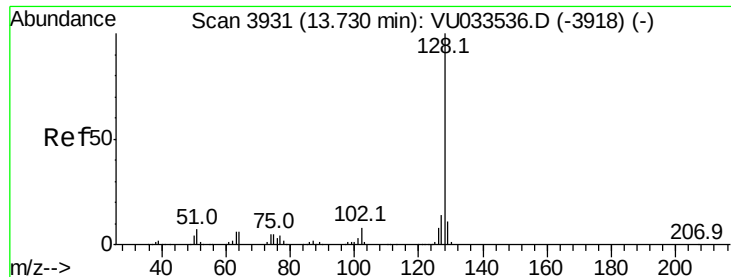
Abundance

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





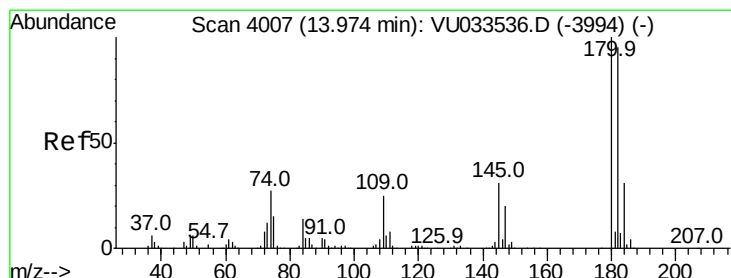
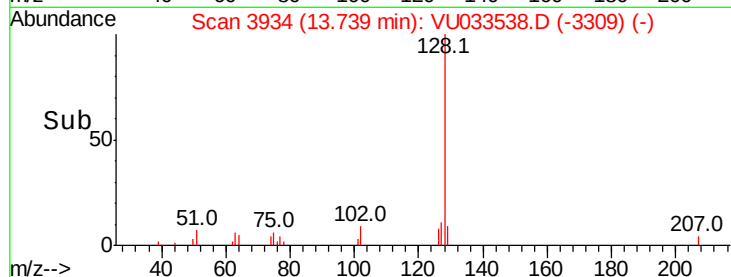
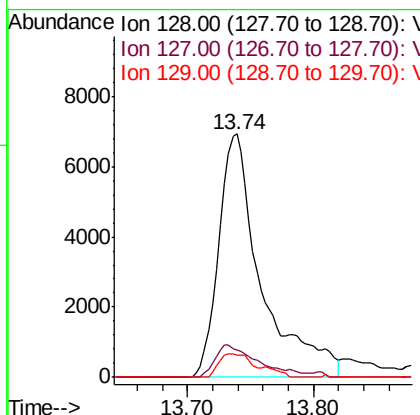
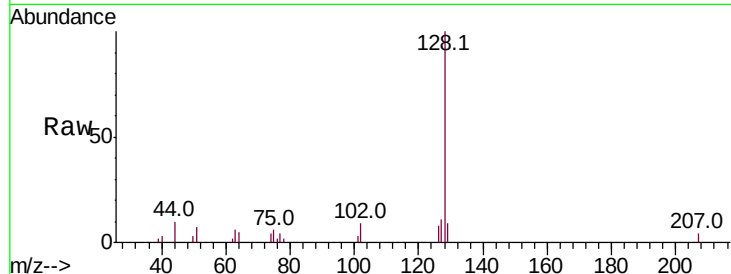
#69
Naphthalene
Concen: 1.919 ug/L m
RT: 13.74 min Scan# 3934
Delta R.T. 0.01 min
Lab File: VU033538.D
Acq: 01 Aug 2019 10:08

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	16273		
127	12.5	10.8	16.2	
129	4.2	8.7	13.1#	

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#70
1,2,3-Trichlorobenzene
Concen: 2.243 ug/L
RT: 13.98 min Scan# 4010
Delta R.T. 0.01 min
Lab File: VU033538.D
Acq: 01 Aug 2019 10:08

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	6974		
182	92.4	75.5	113.3	
145	30.2	24.4	36.6	

