

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080119\
 Data File : VU033542.D
 Acq On : 01 Aug 2019 11:40
 Operator : JC/SP
 Sample : MDL05
 Misc : 5.00u/5mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Manual Integrations
 APPROVED

MMDadoda
 8/2/2019 8:29:28 AM

Quant Time: Aug 02 02:21:46 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	305108	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	300902	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	145770	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	101042	45.55	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.10%
7) Chloroethane-d5	1.67	69	96682	50.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	101.60%
11) 1,1-Dichloroethene-d2	2.26	63	146589	36.41	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.82%
21) 2-Butanone-d5	4.16	46	175229	119.26	ug/L	0.01
Spiked Amount	100.000	Range	40 - 130	Recovery	=	119.26%
24) Chloroform-d	4.62	84	192759	51.84	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.68%
26) 1,2-Dichloroethane-d4	5.29	65	127348	54.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.16%
32) Benzene-d6	5.32	84	389160	52.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.34%
36) 1,2-Dichloropropane-d6	6.31	67	127158	54.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	108.76%
41) Toluene-d8	7.55	98	347567	49.72	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.44%
43) trans-1,3-Dichloropropene-	7.83	79	58351	50.31	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.62%
47) 2-Hexanone-d5	8.30	63	123519	111.26	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	111.26%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	192273	53.33	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	106.66%
64) 1,2-Dichlorobenzene-d4	11.85	152	142882	53.53	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.06%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	8264	2.872 ug/L	100
3) Chloromethane	1.32	50	8469	2.922 ug/L	96
5) Vinyl chloride	1.40	62	8681	2.794 ug/L #	77
6) Bromomethane	1.62	94	5427	1.980 ug/L	98
8) Chloroethane	1.69	64	5796	3.070 ug/L	93
9) Trichlorofluoromethane	1.87	101	12192	3.000 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	7008	3.401 ug/L	91
12) 1,1-Dichloroethene	2.27	96	6322	3.200 ug/L #	1
13) Acetone	2.33	43	8843m	5.883 ug/L	
14) Carbon disulfide	2.46	76	16783	2.708 ug/L	96
15) Methyl Acetate	2.61	43	6952	2.905 ug/L	91
16) Methylene chloride	2.68	84	6848	3.034 ug/L	97
17) trans-1,2-Dichloroethene	2.97	96	5954	2.876 ug/L	89
18) Methyl tert-butyl Ether	2.98	73	16214	2.568 ug/L	97
19) 1,1-Dichloroethane	3.42	63	11190	2.880 ug/L	95
20) cis-1,2-Dichloroethene	4.20	96	6601	2.841 ug/L	97
22) 2-Butanone	4.27	43	10093m	5.624 ug/L	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.53	128	3088	2.547	ug/L	96
25) Chloroform	4.65	83	15407	3.768	ug/L	95
27) 1,2-Dichloroethane	5.39	62	9184	2.917	ug/L	99
29) Cyclohexane	4.97	56	7847	2.391	ug/L	94
30) 1,1,1-Trichloroethane	4.89	97	9237	2.668	ug/L	99
31) Carbon tetrachloride	5.11	117	7670	2.544	ug/L	98
33) Benzene	5.37	78	24385	2.809	ug/L	100
34) Trichloroethene	6.17	95	6581	2.874	ug/L	96
35) Methylcyclohexane	6.40	83	9099	2.546	ug/L	99
37) 1,2-Dichloropropane	6.41	63	6713	2.889	ug/L #	96
38) Bromodichloromethane	6.74	83	8823	2.937	ug/L #	99
39) cis-1,3-Dichloropropene	7.25	75	9142m	2.521	ug/L	
40) 4-Methyl-2-pentanone	7.45	43	16066	5.008	ug/L	98
42) Toluene	7.62	91	25684	2.752	ug/L	96
44) trans-1,3-Dichloropropene	7.86	75	8371m	2.554	ug/L	
45) 1,1,2-Trichloroethane	8.05	97	6289	2.851	ug/L	90
46) Tetrachloroethene	8.21	164	4957	2.652	ug/L	97
48) 2-Hexanone	8.35	43	14738	5.684	ug/L #	95
49) Dibromochloromethane	8.46	129	6752	2.690	ug/L	88
50) 1,2-Dibromoethane	8.57	107	7038	2.880	ug/L #	93
51) Chlorobenzene	9.10	112	17221	2.818	ug/L	97
52) Ethylbenzene	9.23	91	25687	2.556	ug/L	96
53) m,p-Xylene	9.36	106	8865	2.297	ug/L	93
54) o-xylene	9.76	106	8568	2.289	ug/L	95
55) Styrene	9.78	104	13411	2.110	ug/L	93
56) Isopropylbenzene	10.15	105	22073	2.257	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.44	83	12480	3.137	ug/L #	98
59) 1,2,3-Trichloropropane	10.48	75	8816	2.875	ug/L	100
61) Bromoform	9.94	173	4868	2.765	ug/L #	91
62) 1,3-Dichlorobenzene	11.40	146	11981	2.676	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	13383	2.877	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	13706	3.028	ug/L	93
66) 1,2-Dibromo-3-chloropropan	12.65	75	2159	2.582	ug/L	94
67) 1,3,5-Trichlorobenzene	12.88	180	8614	2.385	ug/L	97
68) 1,2,4-trichlorobenzene	13.49	180	5829	1.889	ug/L	96
69) Naphthalene	13.74	128	14277m	1.612	ug/L	
70) 1,2,3-Trichlorobenzene	13.98	180	7040	2.169	ug/L	97

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

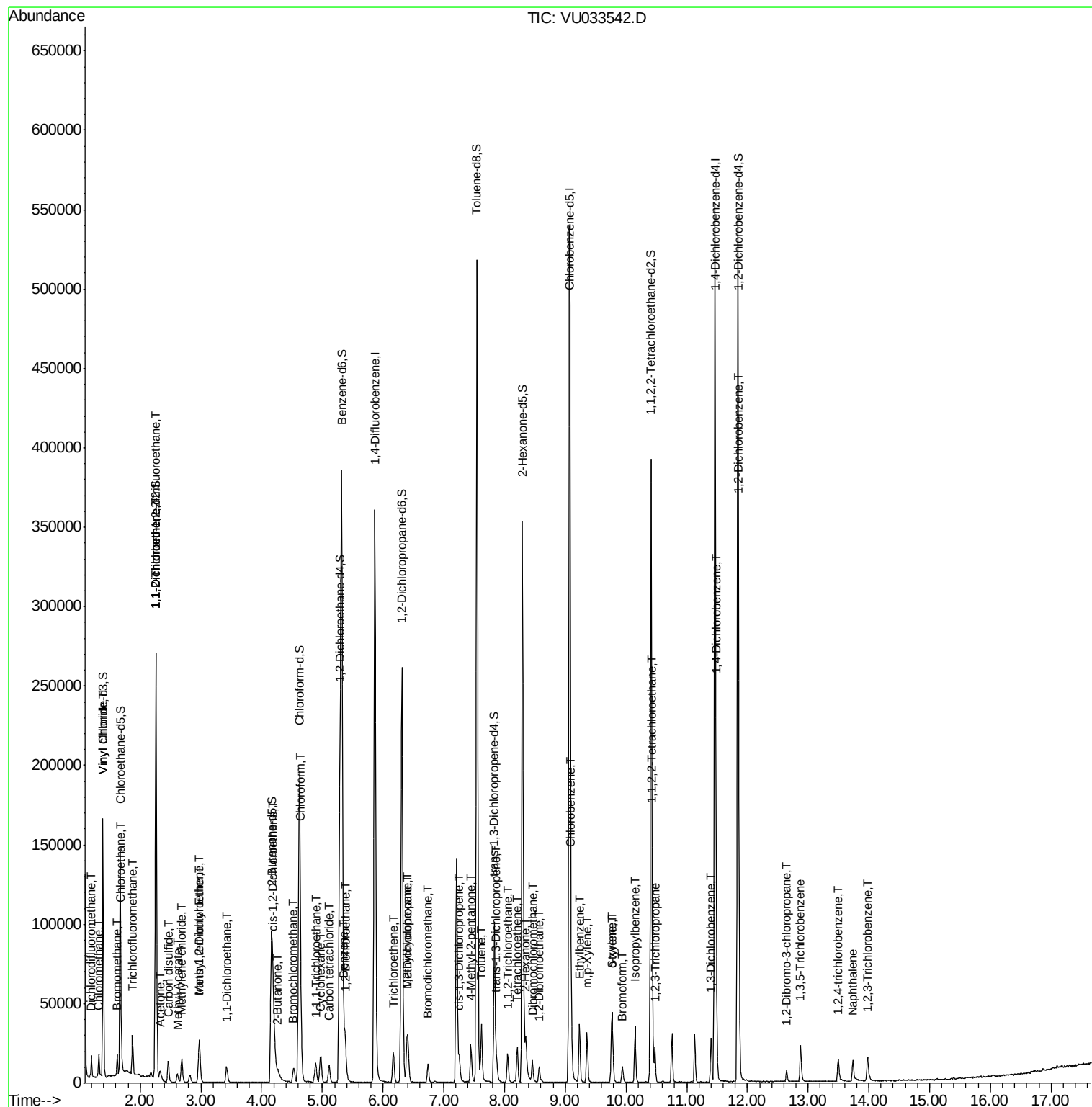
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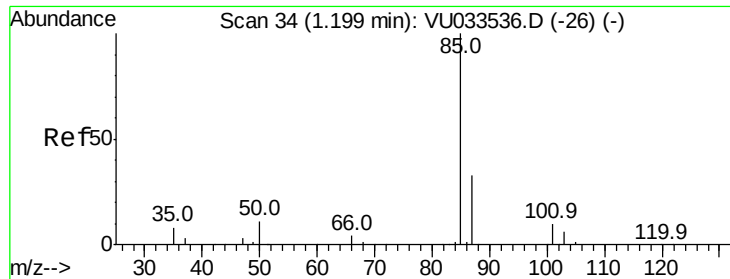
Instrument :
MSVOA_U
ClientSampleId :
MDL05

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#2

Dichlorodifluoromethane

Concen: 2.872 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU033542.D

Acq: 01 Aug 2019 11:40

Instrument :

MSVOA_U

ClientSampleId :

MDL05

Tot Ion: 85 Resp: 8264

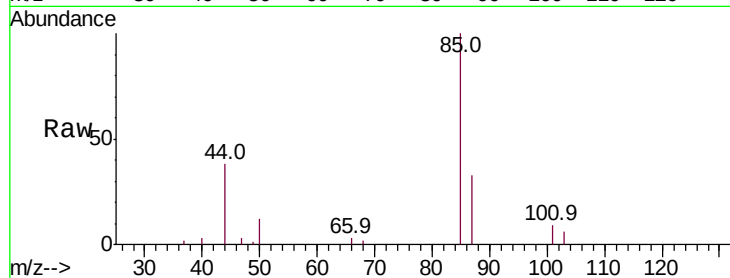
Ion Ratio Lower Upper

85 100

87 31.5 25.4 38.2

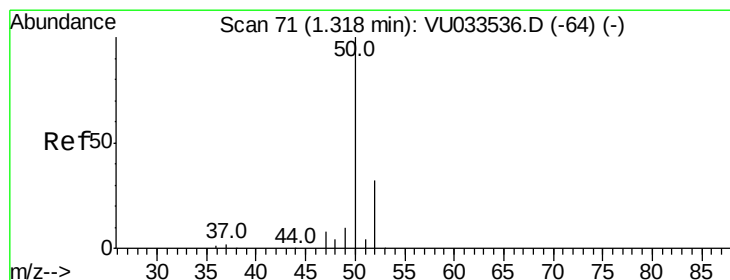
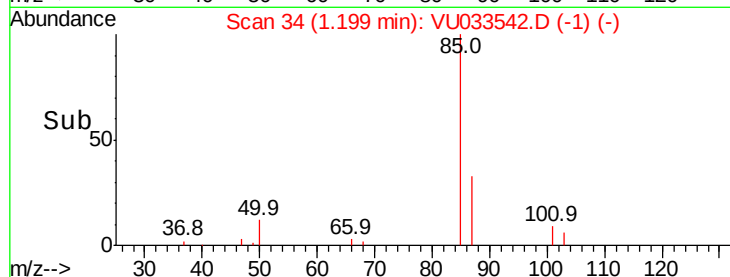
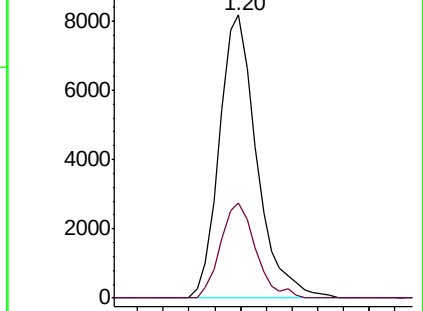
Manual Integrations
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Abundance Ion 85.00 (84.70 to 85.70): VU033542.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033542.D (-1) (-)



#3

Chloromethane

Concen: 2.922 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033542.D

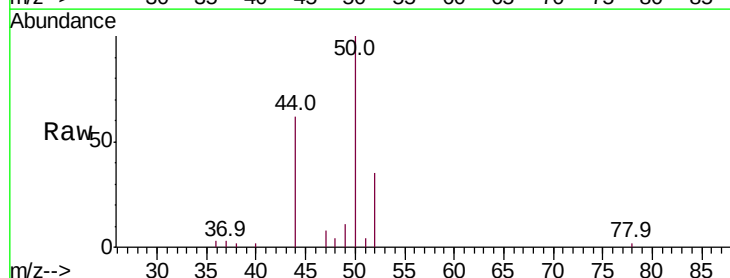
Acq: 01 Aug 2019 11:40

Tgt Ion: 50 Resp: 8469

Ion Ratio Lower Upper

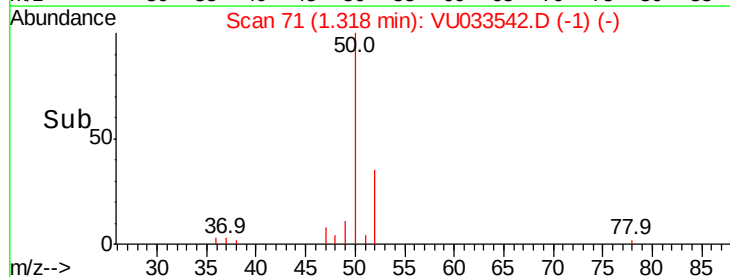
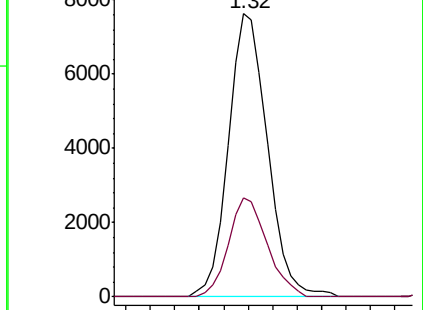
50 100

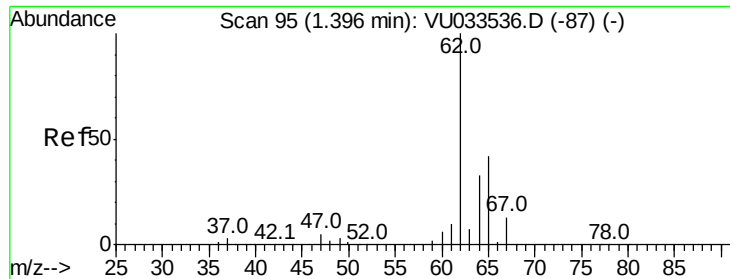
52 35.0 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033542.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033542.D (-1) (-)





#5

Vinyl chloride

Concen: 2.794 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU033542.D

Acq: 01 Aug 2019 11:40

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion: 62 Resp: 8681

Ion Ratio Lower Upper

62 100

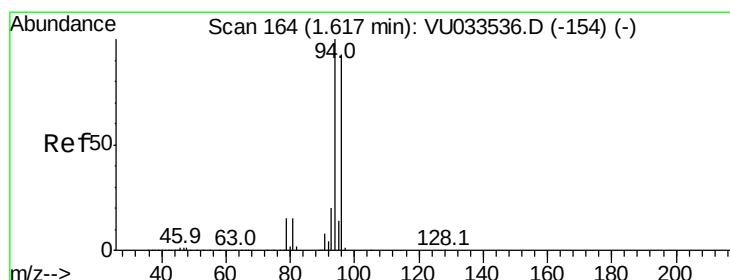
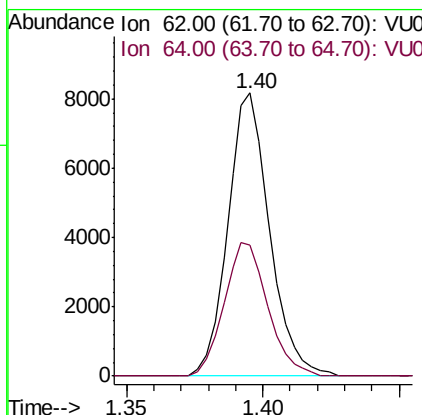
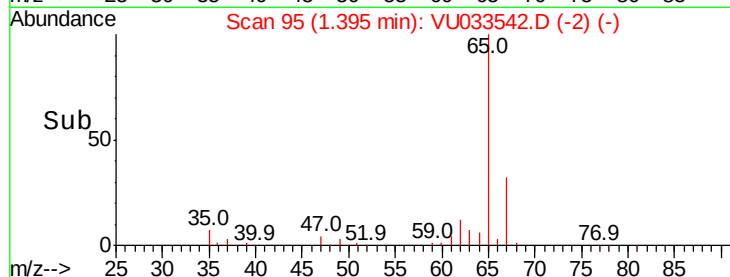
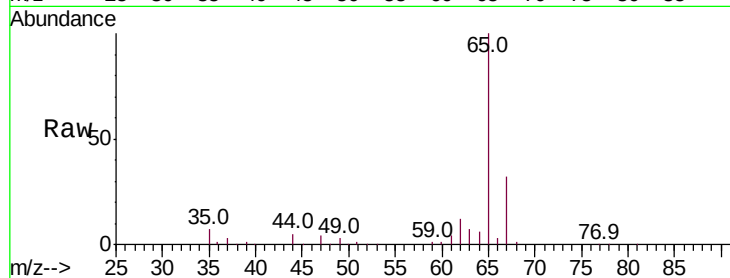
64 46.5 23.4 43.4#

Manual Integrations

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#6

Bromomethane

Concen: 1.980 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.01 min

Lab File: VU033542.D

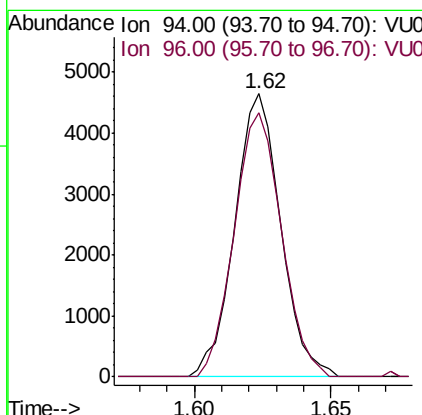
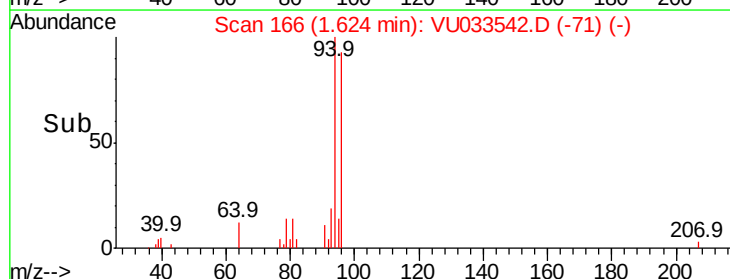
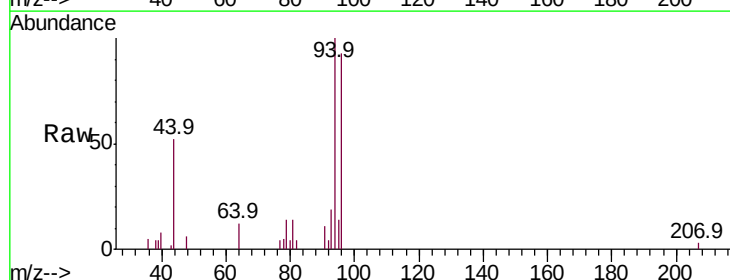
Acq: 01 Aug 2019 11:40

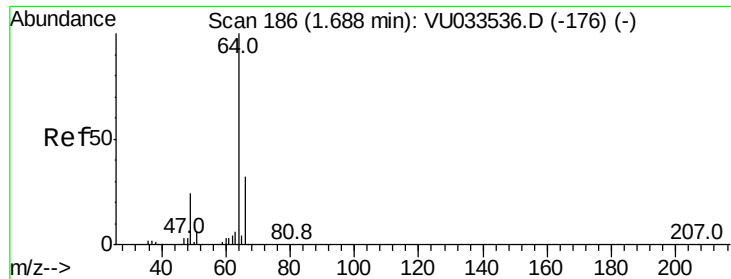
Tgt Ion: 94 Resp: 5427

Ion Ratio Lower Upper

94 100

96 93.5 64.4 119.6





#8

Chloroethane

Concen: 3.070 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU033542.D

Acq: 01 Aug 2019 11:40

Instrument :

MSVOA_U

ClientSampleId :

MDL05

Tot Ion: 64 Resp: 5796

Ion Ratio Lower Upper

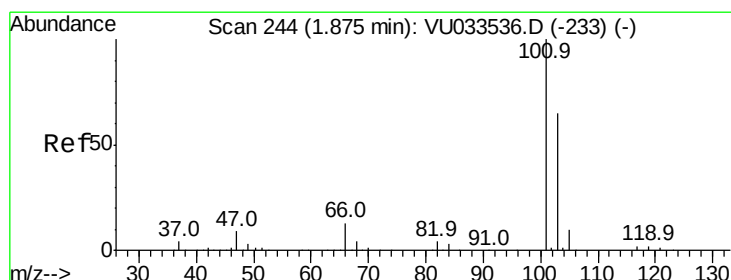
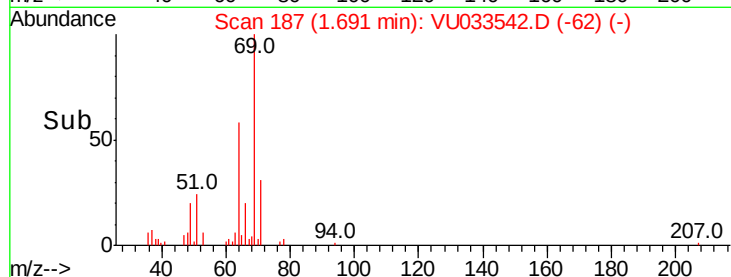
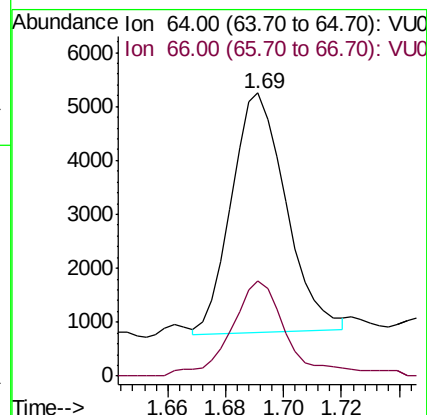
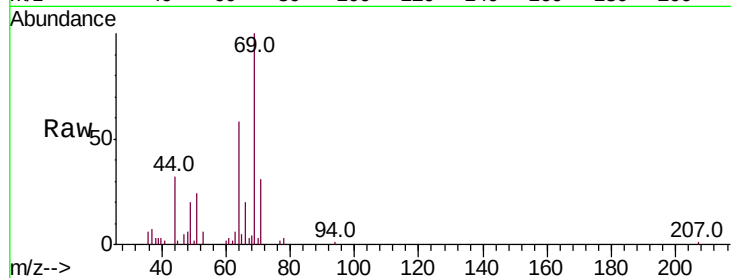
64 100

66 33.8 21.1 39.3

Manual Integrations
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#9

Trichlorofluoromethane

Concen: 3.000 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033542.D

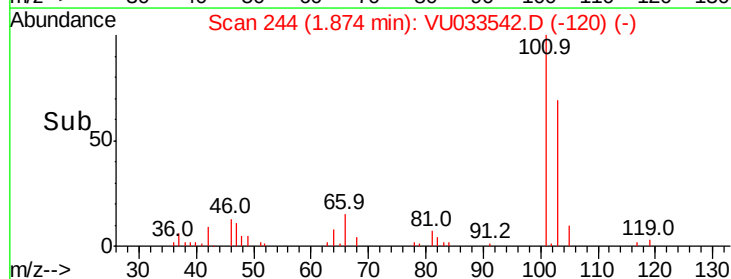
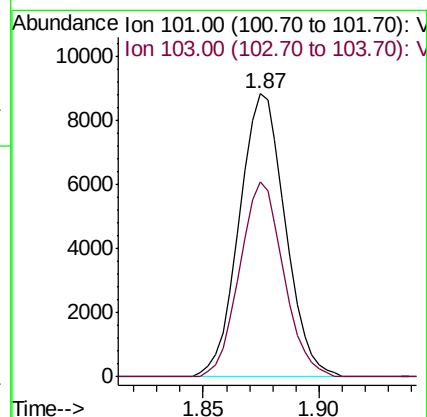
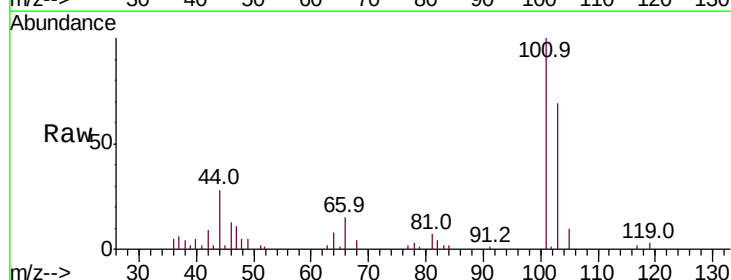
Acq: 01 Aug 2019 11:40

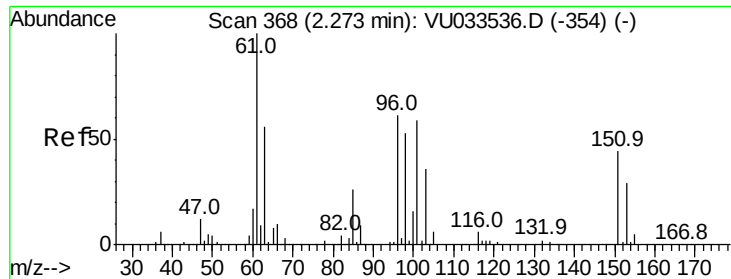
Tgt Ion: 101 Resp: 12192

Ion Ratio Lower Upper

101 100

103 65.7 51.6 77.4





#10

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

Concen: 3.401 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033542.D

Acq: 01 Aug 2019 11:40

Instrument :

MSVOA_U

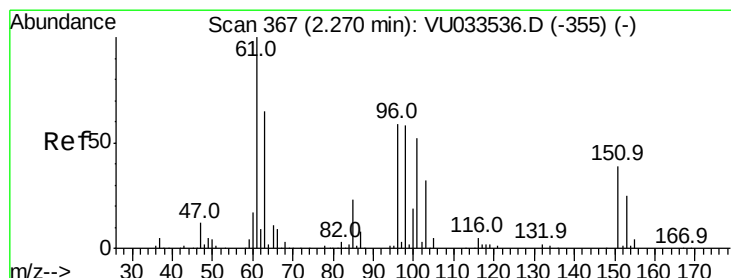
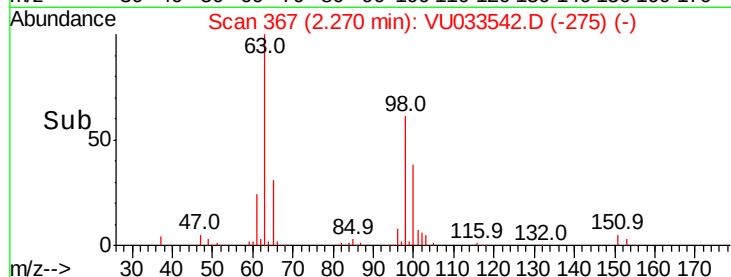
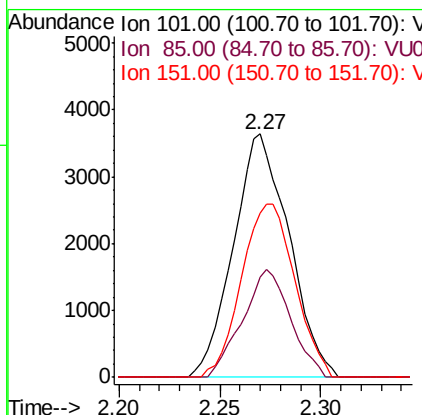
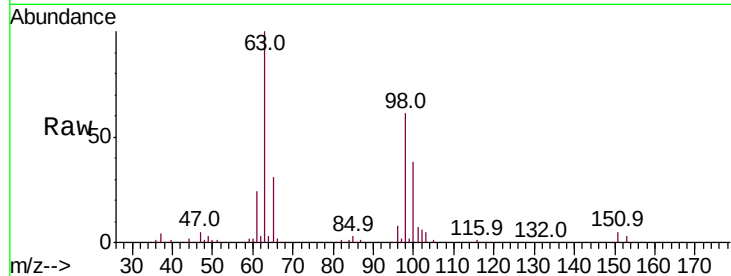
ClientSampled :

MDL05

Tot Ion:	101	Resp:	7008
Ion Ratio	Lower	Upper	
101	100		
85	38.2	35.8	53.8
151	68.2	60.1	90.1

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#12

1,1-Dichloroethene

Concen: 3.200 ug/L

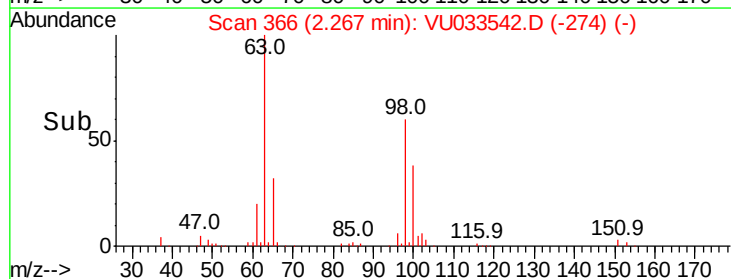
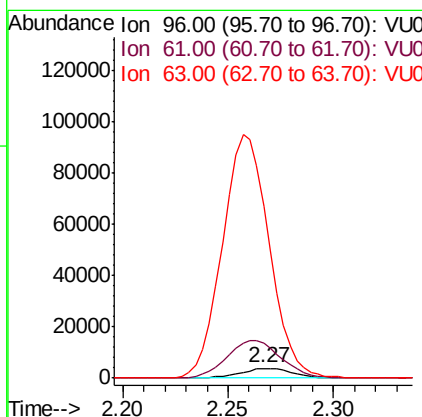
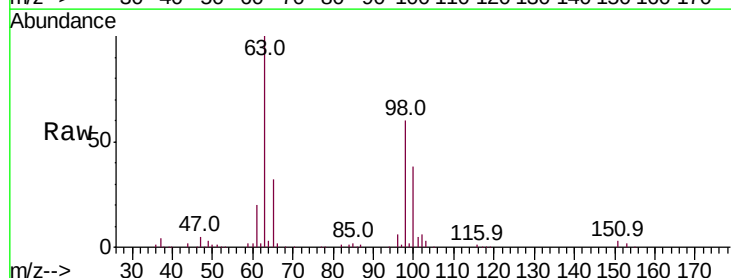
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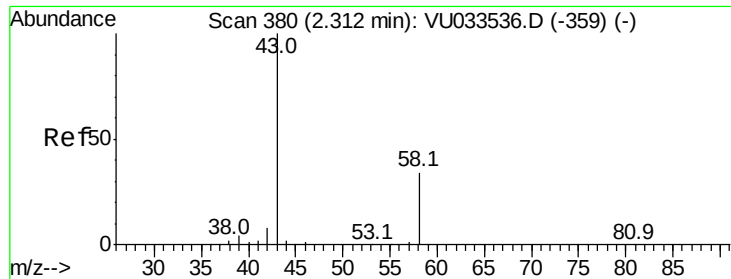
Delta R.T. -0.00 min

Lab File: VU033542.D

Acq: 01 Aug 2019 11:40

Tgt Ion:	96	Resp:	6322
Ion Ratio	Lower	Upper	
96	100		
61	352.1	119.3	221.5#
63	1748.4	86.6	160.8#





#13

Acetone

Concen: 5.883 ug/L m

RT: 2.33 min Scan# 387

Delta R.T. 0.02 min

Lab File: VU033542.D

Acq: 01 Aug 2019 11:40

Instrument :

MSVOA_U

ClientSampleId :

MDL05

Tot Ion: 43 Resp: 8843

Ion Ratio Lower Upper

43 100

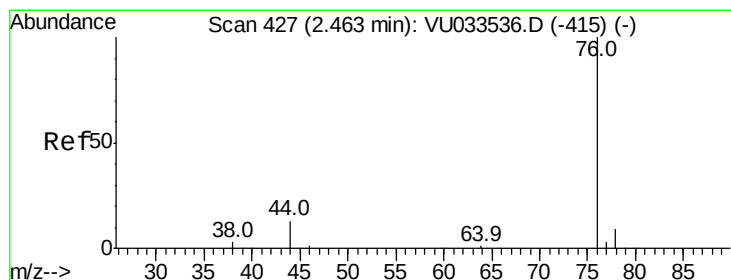
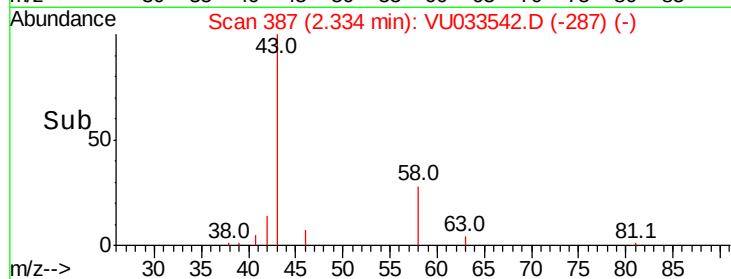
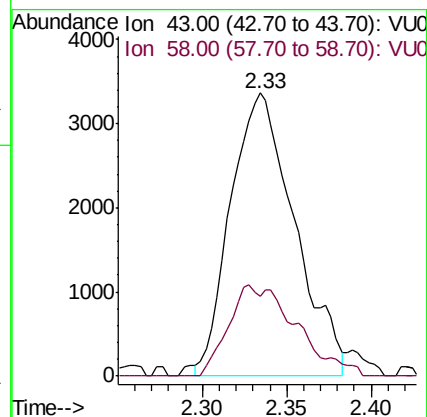
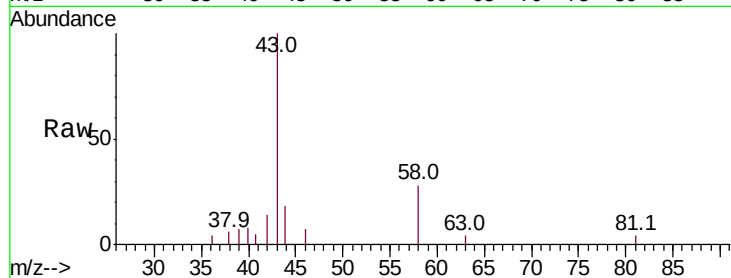
58 16.0 0.0 66.2

Manual Integrations

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#14

Carbon disulfide

Concen: 2.708 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033542.D

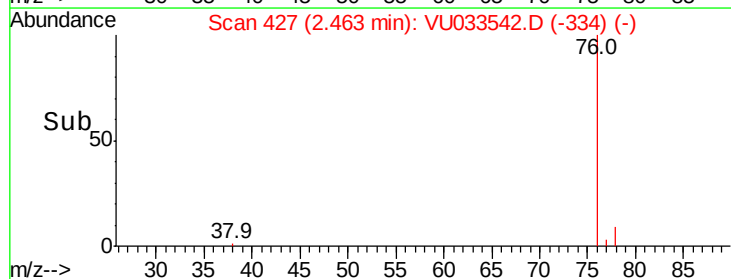
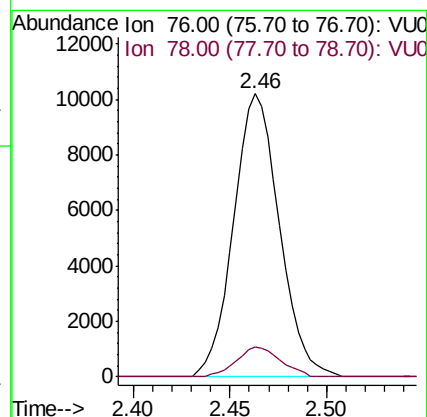
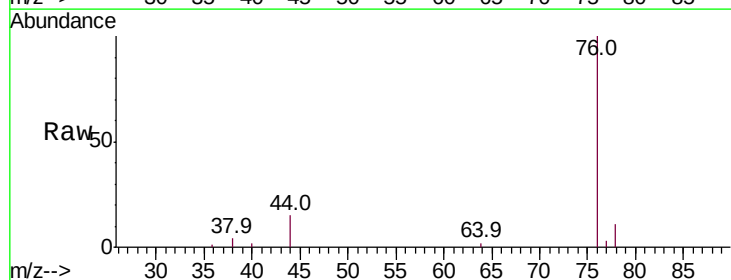
Acq: 01 Aug 2019 11:40

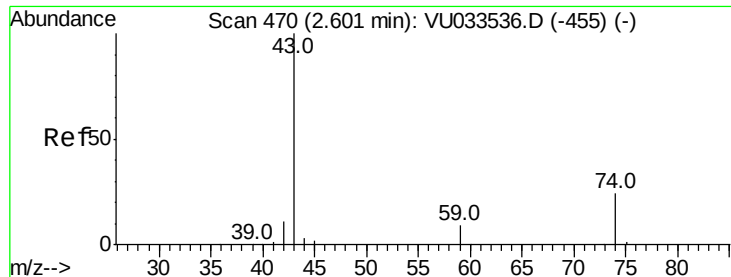
Tgt Ion: 76 Resp: 16783

Ion Ratio Lower Upper

76 100

78 10.8 7.4 11.0





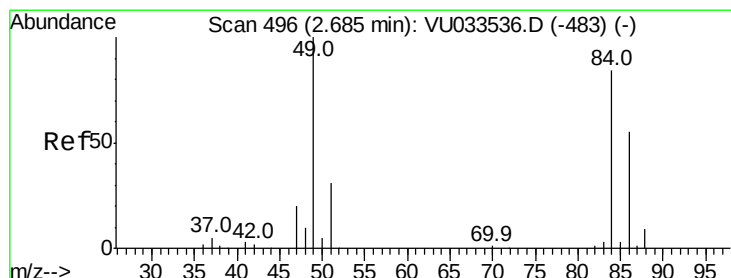
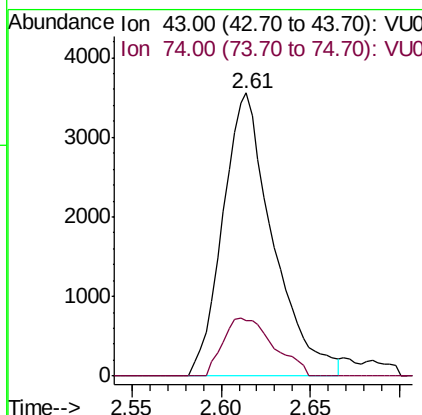
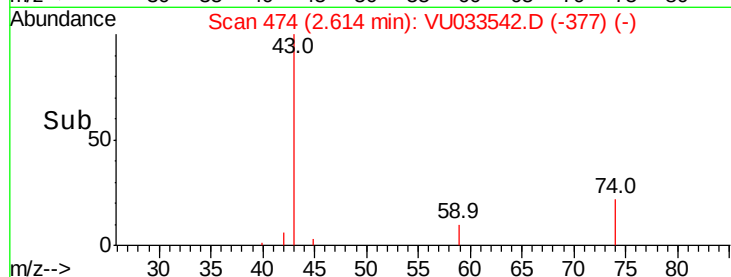
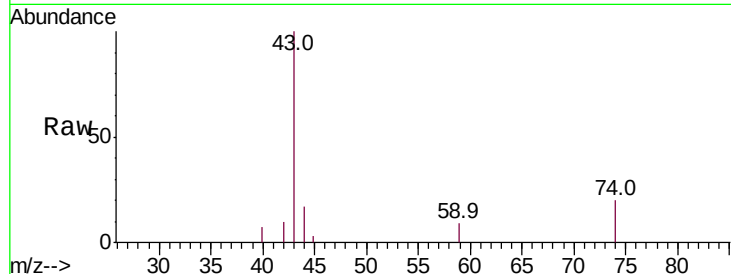
#15
Methyl Acetate
Concen: 2.905 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.01 min
Lab File: VU033542.D
Acq: 01 Aug 2019 11:40

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion: 43 Resp: 6952
Ion Ratio Lower Upper
43 100
74 20.7 20.1 30.1

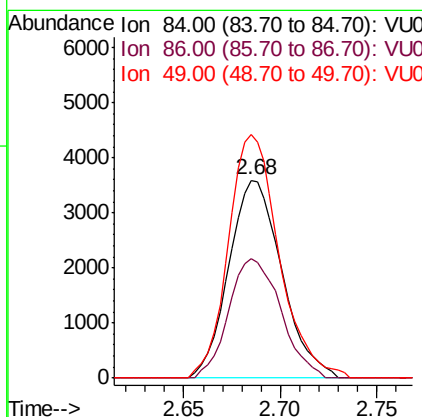
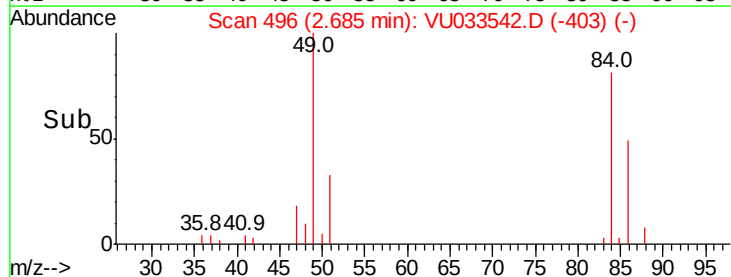
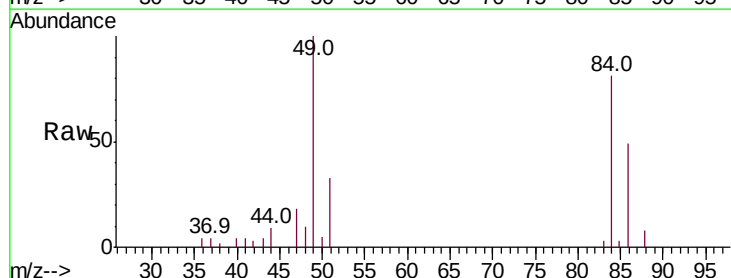
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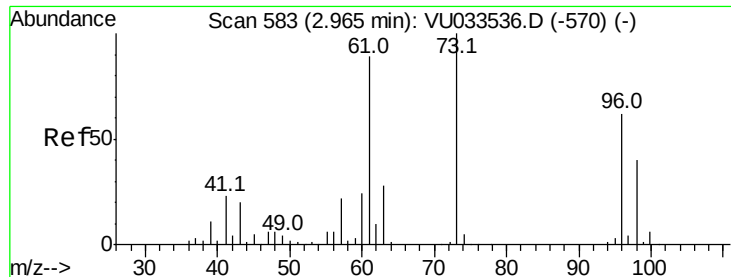
MMDadoda
8/2/2019 8:29:28 AM



#16
Methylene chloride
Concen: 3.034 ug/L
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU033542.D
Acq: 01 Aug 2019 11:40

Tgt Ion: 84 Resp: 6848
Ion Ratio Lower Upper
84 100
86 60.3 45.7 84.9
49 123.1 85.0 158.0





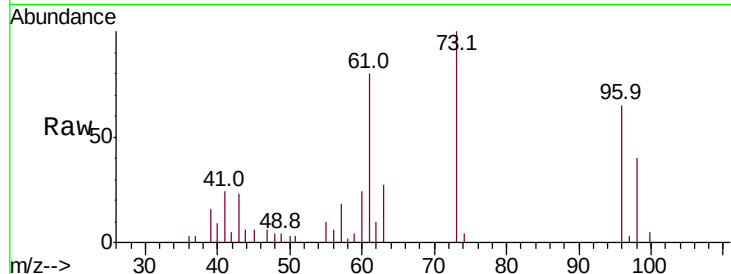
#17
trans-1,2-Dichloroethene
Concen: 2.876 ug/L
RT: 2.97 min Scan# 584
Delta R.T. 0.00 min
Lab File: VU033542.D
Acq: 01 Aug 2019 11:40

Instrument :
MSVOA_U
ClientSampled :
MDL05

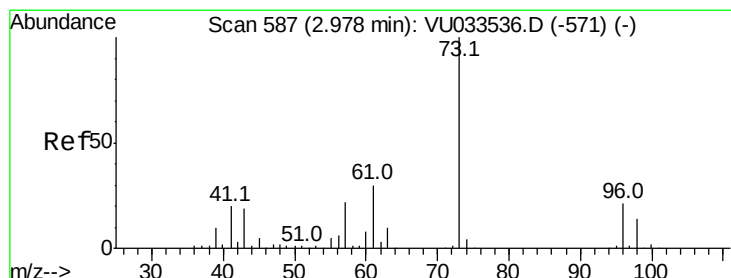
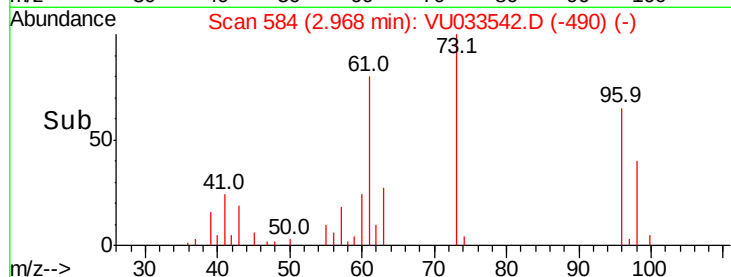
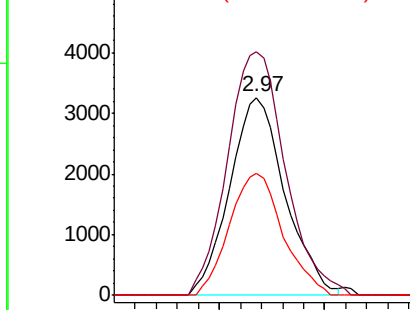
Tot Ion	Ratio	Lower	Upper
96	100		
61	122.9	98.3	182.5
98	61.6	44.3	82.3

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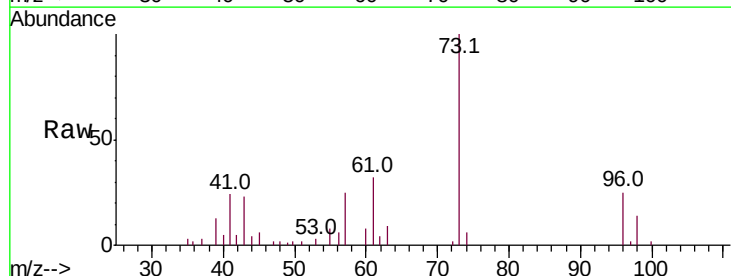


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

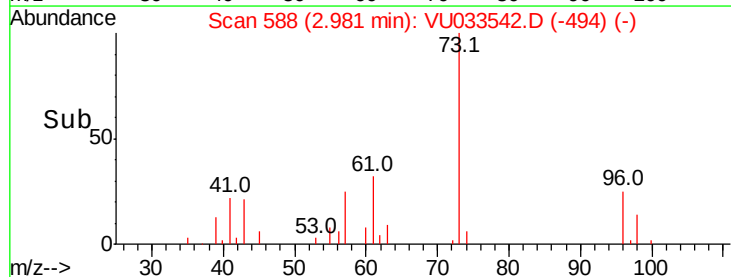
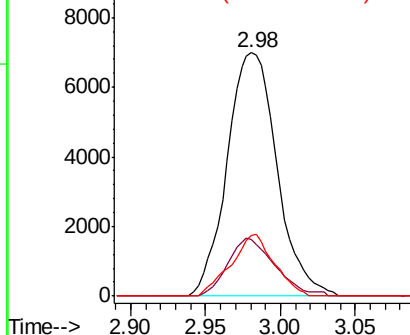


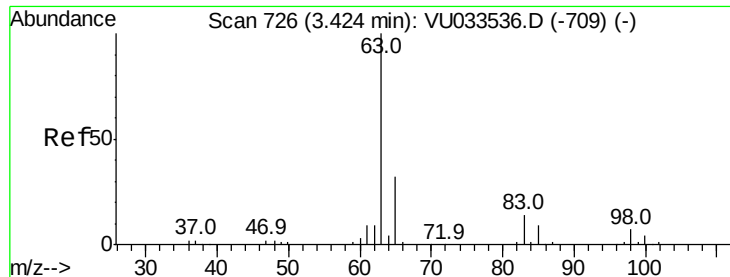
#18
Methyl tert-butyl Ether
Concen: 2.568 ug/L
RT: 2.98 min Scan# 588
Delta R.T. 0.00 min
Lab File: VU033542.D
Acq: 01 Aug 2019 11:40

Tgt Ion	Ratio	Lower	Upper
73	100		
43	22.1	15.4	23.2
57	21.9	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





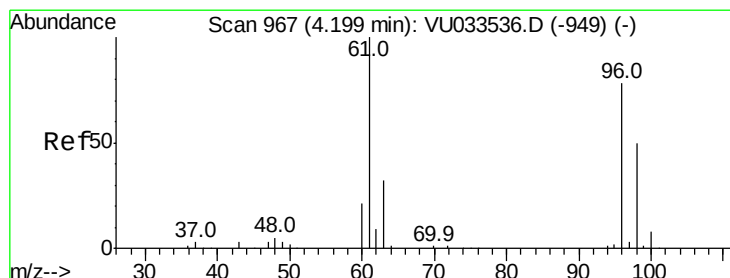
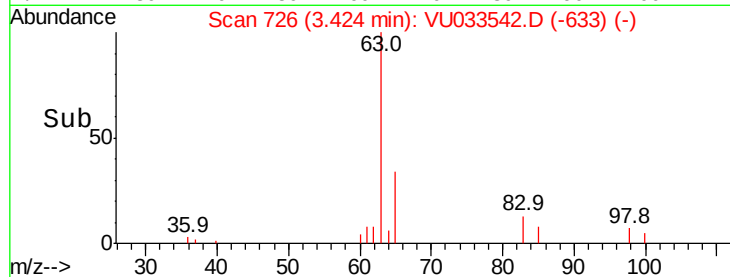
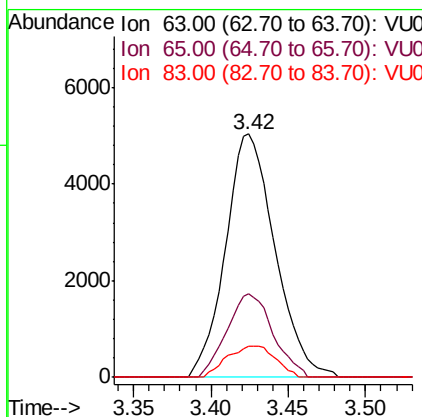
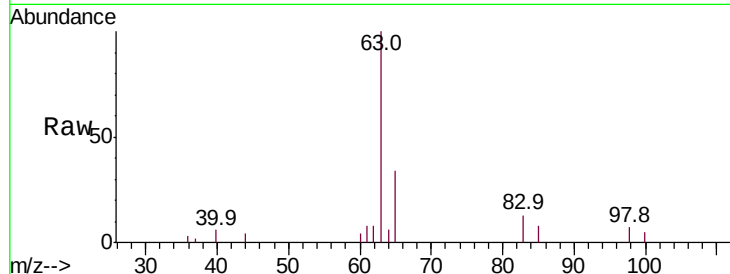
#19
 1,1-Dichloroethane
 Concen: 2.880 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. -0.00 min
 Lab File: VU033542.D
 Acq: 01 Aug 2019 11:40

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion:	63	Resp:	11190
Ion	Ratio	Lower	Upper
63	100		
65	34.4	22.0	40.8
83	12.6	9.5	17.7

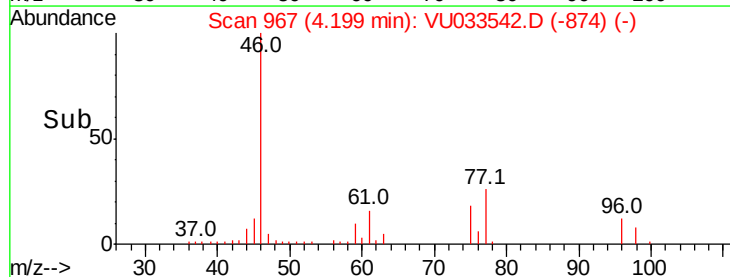
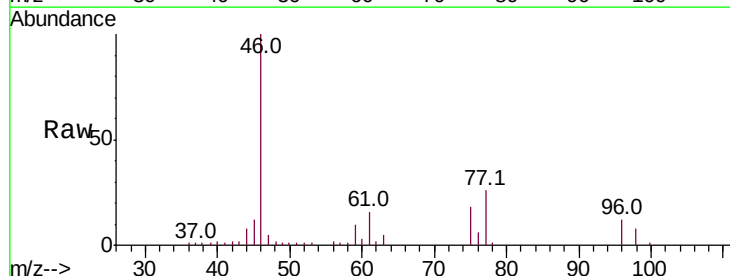
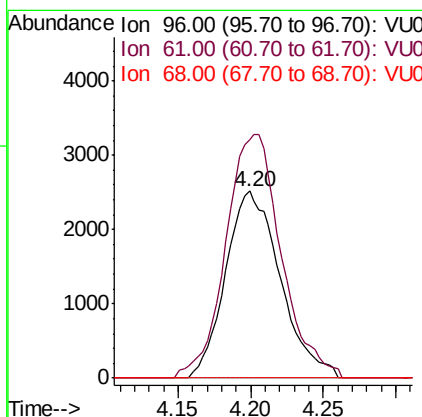
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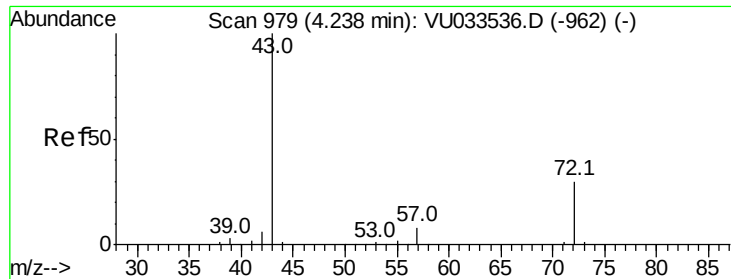
MMDadoda
 8/2/2019 8:29:28 AM



#20
 cis-1,2-Dichloroethene
 Concen: 2.841 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. -0.00 min
 Lab File: VU033542.D
 Acq: 01 Aug 2019 11:40

Tgt Ion:	96	Resp:	6601
Ion	Ratio	Lower	Upper
96	100		
61	127.5	91.3	169.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 5.624 ug/L m

RT: 4.27 min Scan# 990

Delta R.T. 0.04 min

Lab File: VU033542.D

Acq: 01 Aug 2019 11:40

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion: 43 Resp: 10093

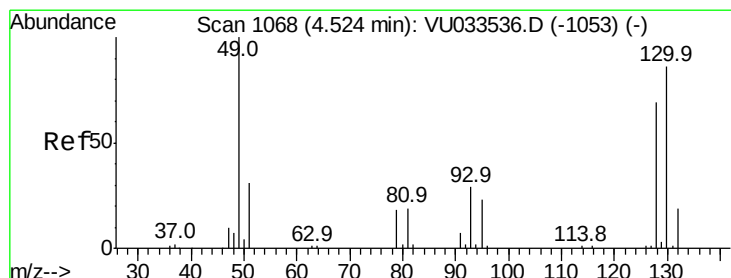
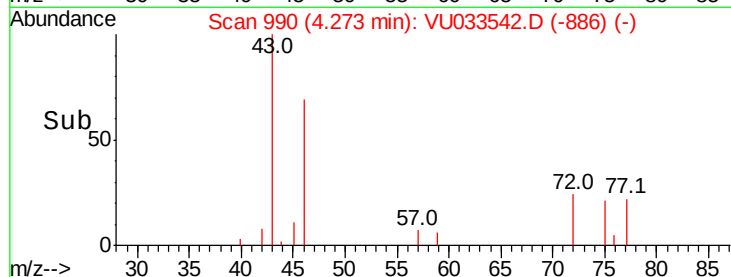
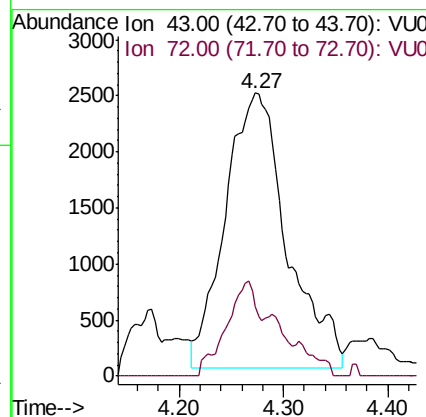
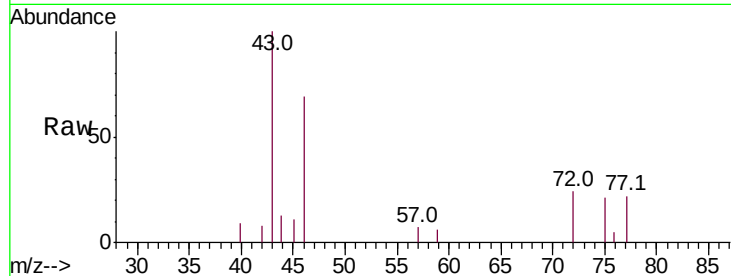
Ion Ratio Lower Upper

43 100

72 0.4 14.2 42.6#

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#23

Bromochloromethane

Concen: 2.547 ug/L

RT: 4.53 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VU033542.D

Acq: 01 Aug 2019 11:40

Tgt Ion: 128 Resp: 3088

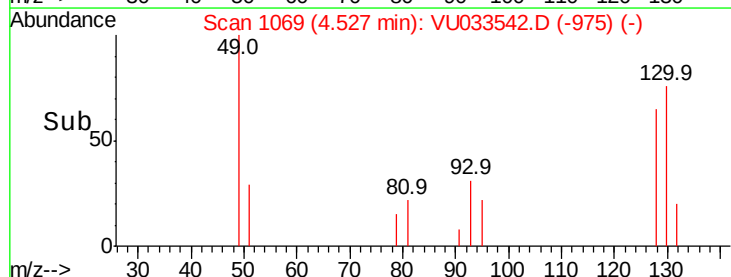
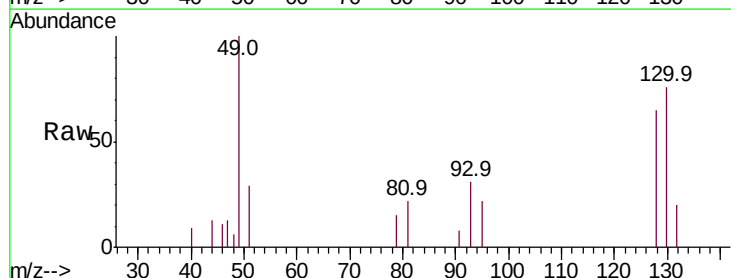
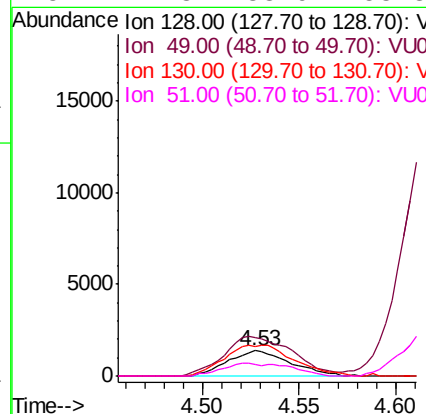
Ion Ratio Lower Upper

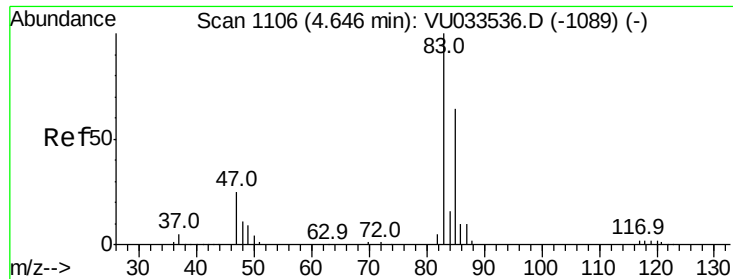
128 100

49 154.5 108.4 201.2

130 117.4 89.7 166.5

51 44.8 38.9 58.3





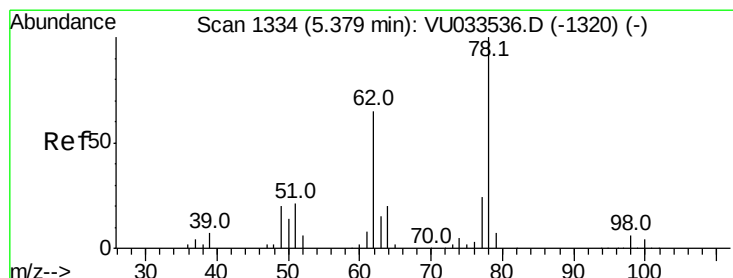
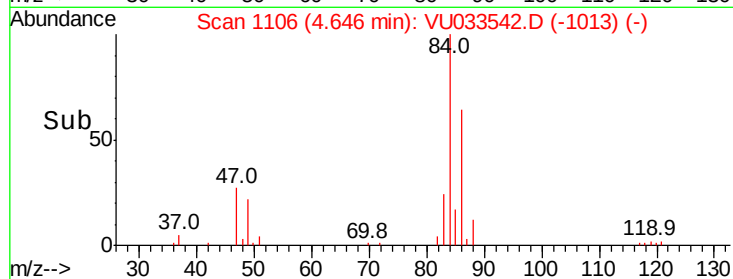
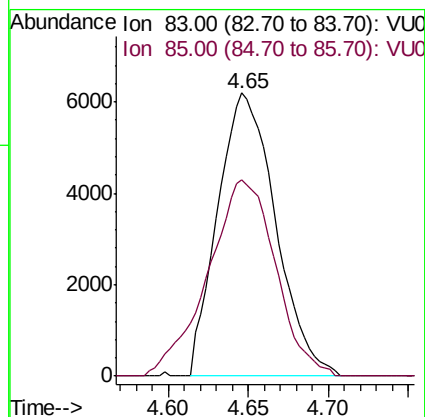
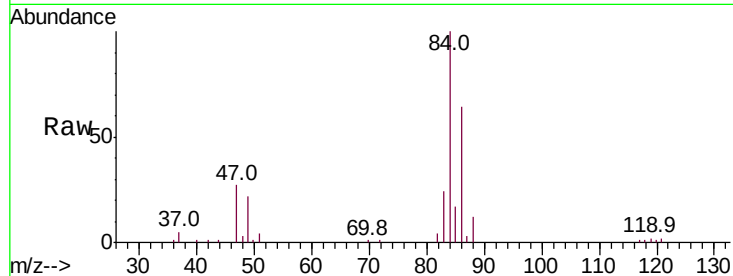
#25
Chloroform
Concen: 3.768 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033542.D
Acq: 01 Aug 2019 11:40

Instrument :
MSVOA_U
ClientSampled :
MDL05

Tot Ion: 83 Resp: 15407
Ion Ratio Lower Upper
83 100
85 69.2 45.6 84.8

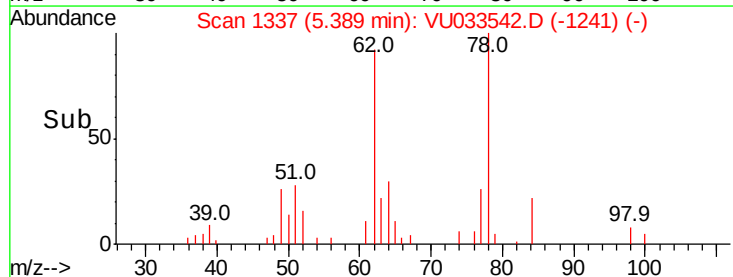
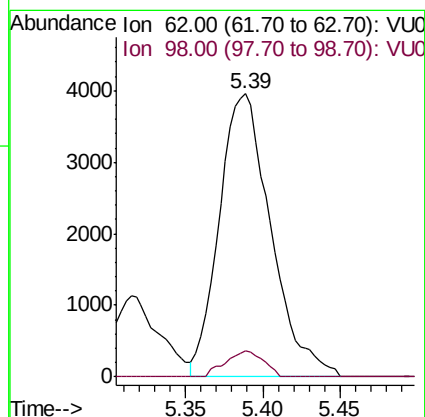
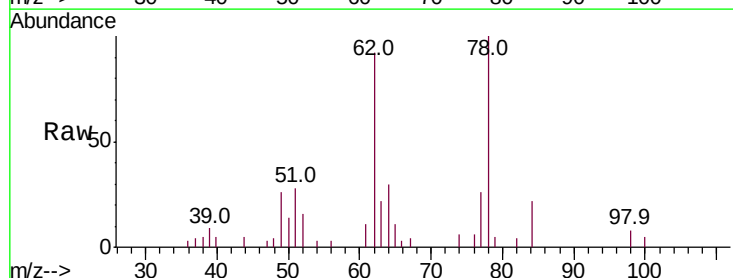
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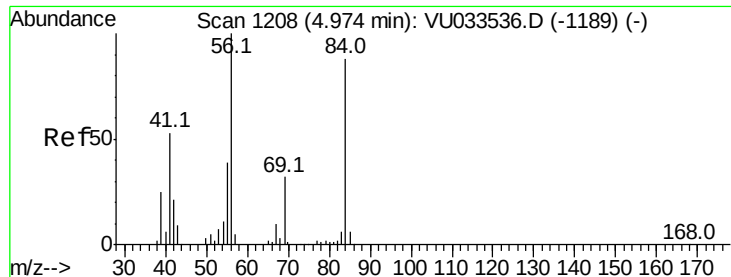
MMDadoda
8/2/2019 8:29:28 AM



#27
1,2-Dichloroethane
Concen: 2.917 ug/L
RT: 5.39 min Scan# 1337
Delta R.T. 0.01 min
Lab File: VU033542.D
Acq: 01 Aug 2019 11:40

Tgt Ion: 62 Resp: 9184
Ion Ratio Lower Upper
62 100
98 9.2 7.2 10.8





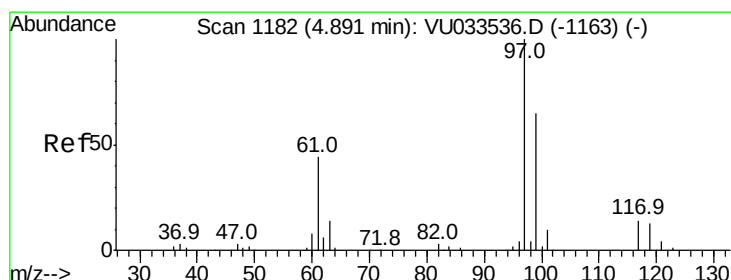
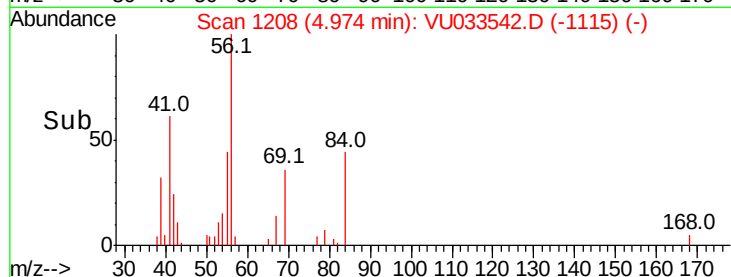
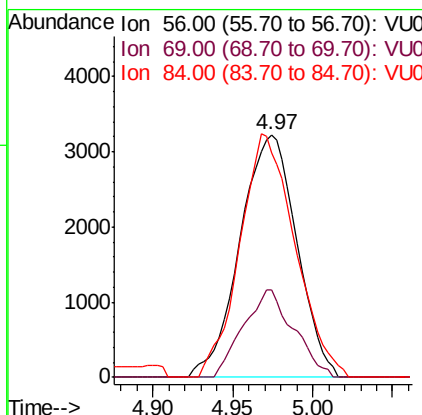
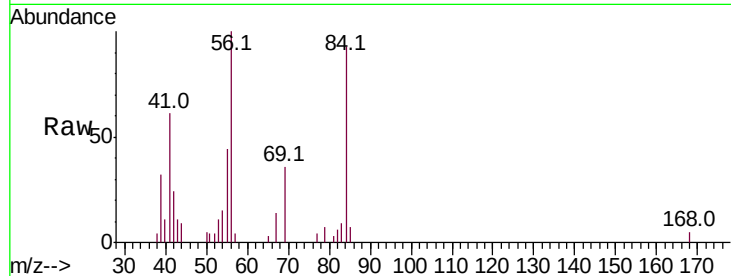
#29
Cyclohexane
Concen: 2.391 ug/L
RT: 4.97 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VU033542.D
Acq: 01 Aug 2019 11:40

Instrument :
MSVOA_U
ClientSampled :
MDL05

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.9	25.0	37.6
84	97.3	71.6	107.4

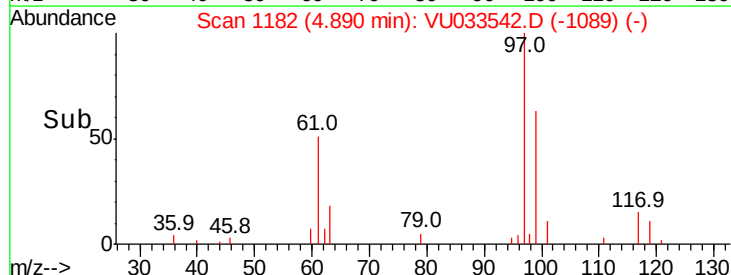
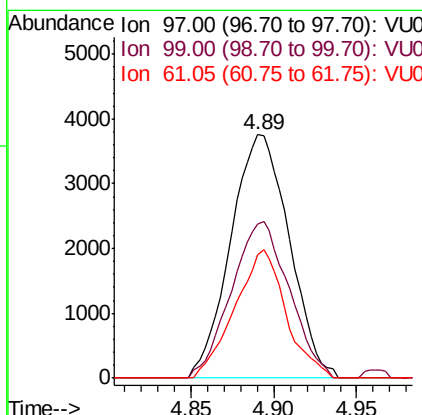
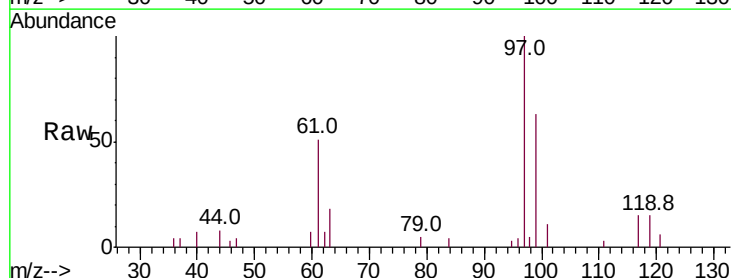
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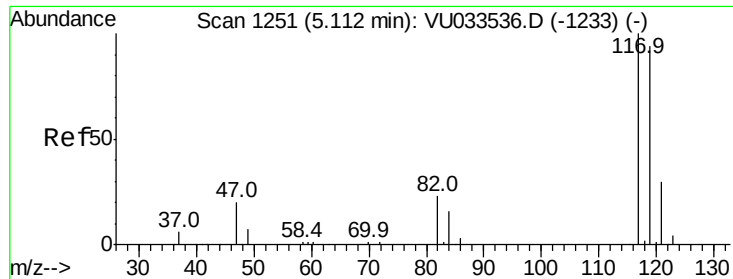
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#30
1,1,1-Trichloroethane
Concen: 2.668 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033542.D
Acq: 01 Aug 2019 11:40

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.1	76.7
61	46.1	35.5	53.3





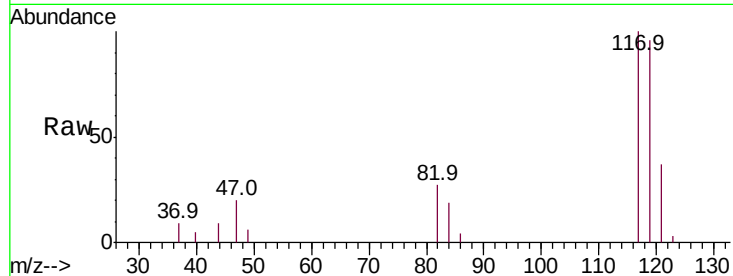
#31
Carbon tetrachloride
Concen: 2.544 ug/L
RT: 5.11 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VU033542.D
Acq: 01 Aug 2019 11:40

Instrument :
MSVOA_U
ClientSampleId :
MDL05

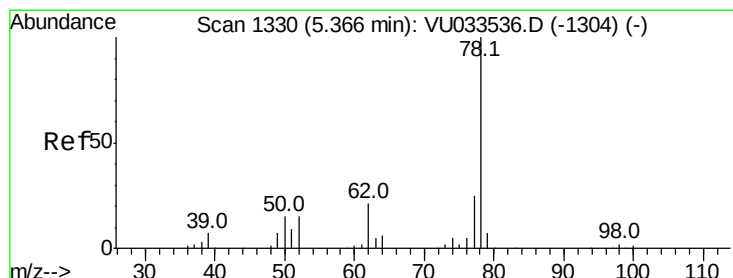
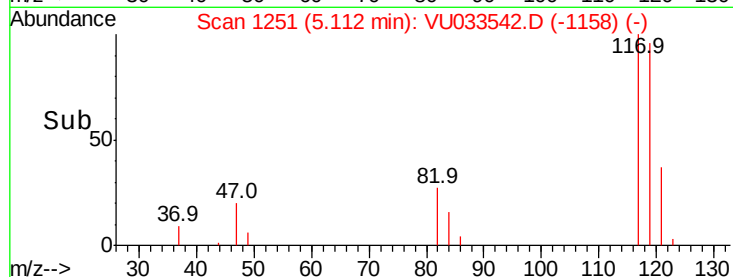
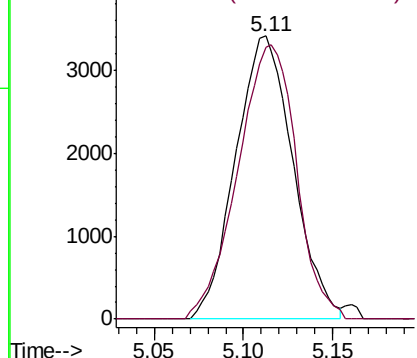
Tot Ion:117 Resp: 7670
Ion Ratio Lower Upper
117 100
119 98.6 77.0 115.4

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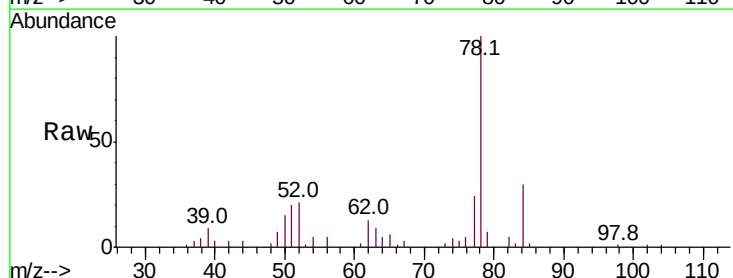


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V

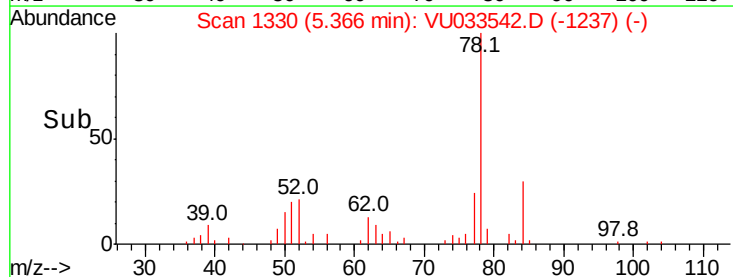
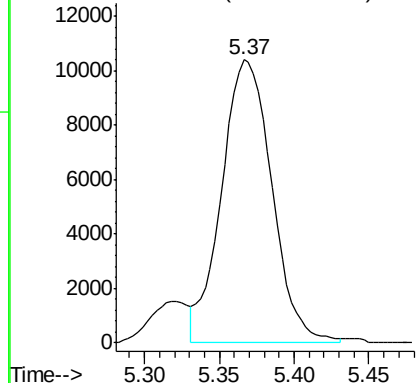


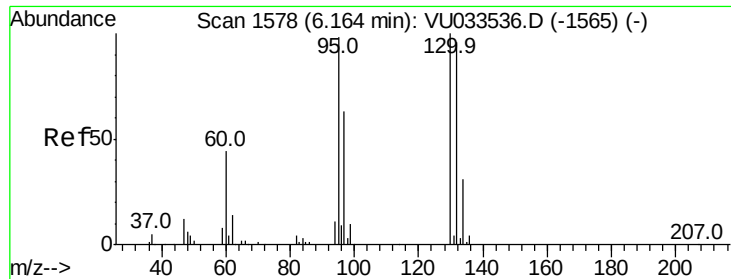
#33
Benzene
Concen: 2.809 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VU033542.D
Acq: 01 Aug 2019 11:40

Tgt Ion: 78 Resp: 24385



Abundance Ion 78.00 (77.70 to 78.70): VU0





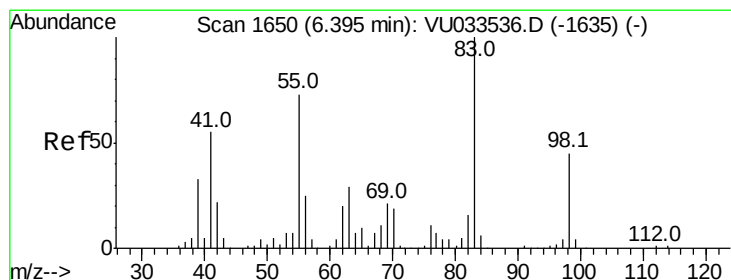
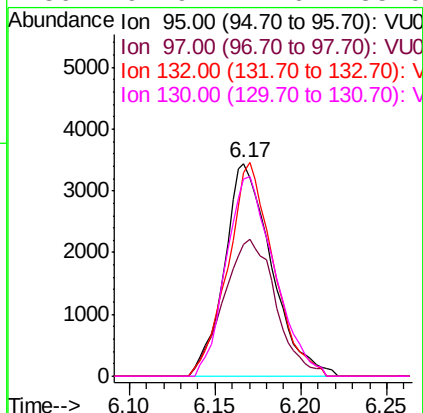
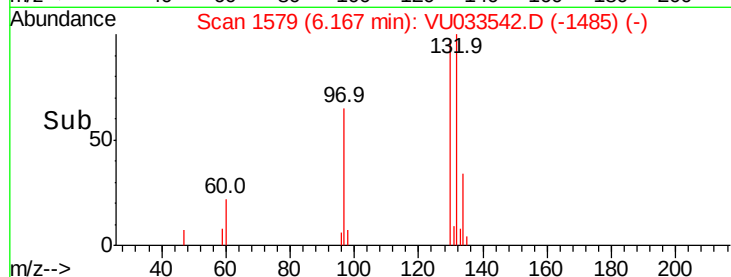
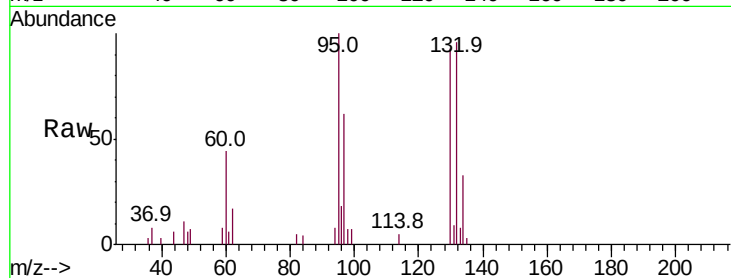
#34
 Trichloroethene
 Concen: 2.874 ug/L
 RT: 6.17 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: VU033542.D
 Acq: 01 Aug 2019 11:40

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

Tot Ion	Ratio	Lower	Upper
95	100		
97	62.2	44.7	83.1
132	95.6	66.8	124.0
130	92.9	71.6	133.0

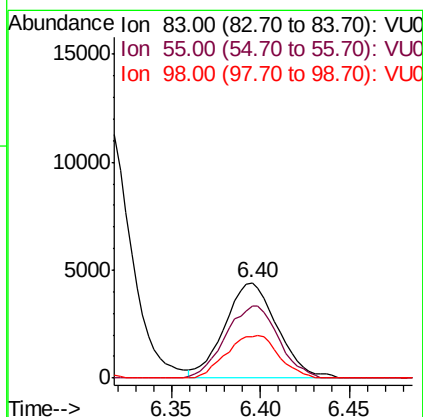
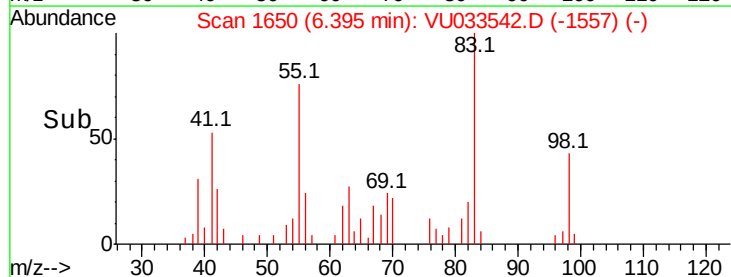
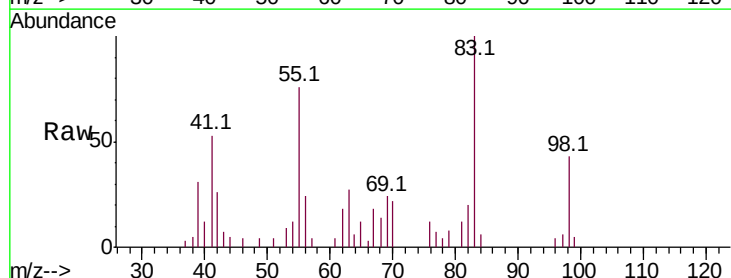
Manual Integrations
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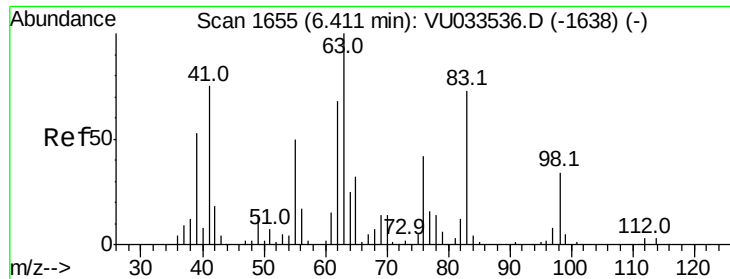
MMDadoda
 8/2/2019 8:29:28 AM



#35
 Methylcyclohexane
 Concen: 2.546 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. -0.00 min
 Lab File: VU033542.D
 Acq: 01 Aug 2019 11:40

Tgt Ion	Ratio	Lower	Upper
83	100		
55	76.1	60.2	90.4
98	44.3	36.5	54.7





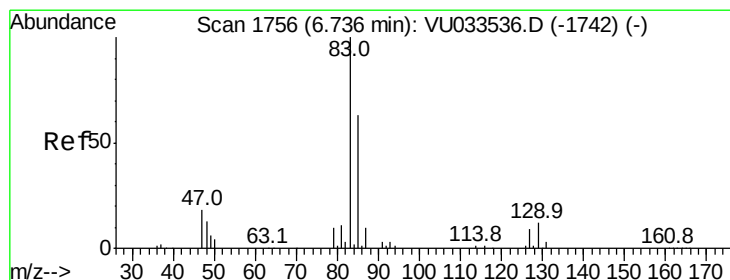
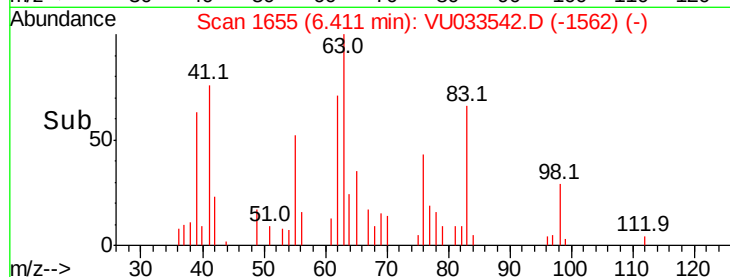
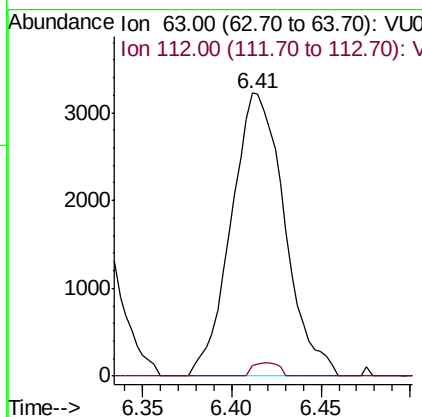
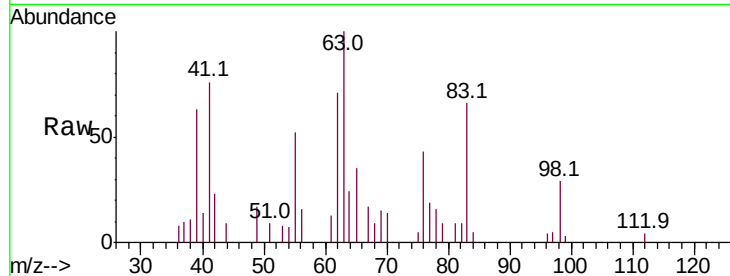
#37
 1,2-Dichloropropane
 Concen: 2.889 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033542.D
 Acq: 01 Aug 2019 11:40

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

Tot Ion: 63 Resp: 6713
 Ion Ratio Lower Upper
 63 100
 112 2.3 3.0 4.6#

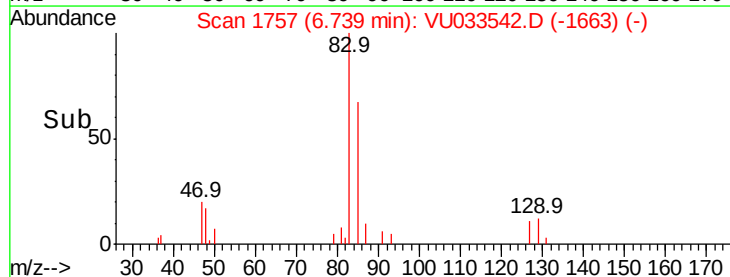
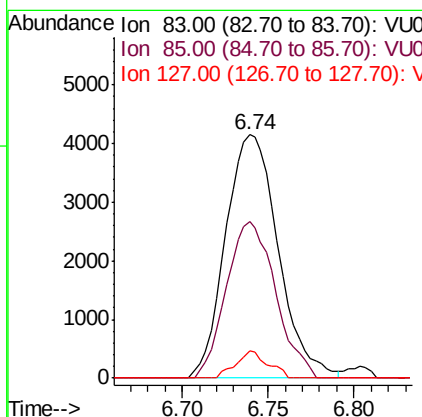
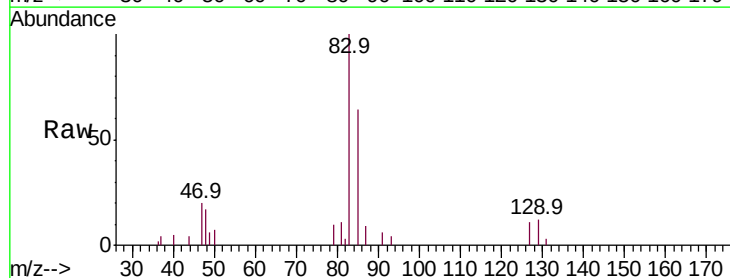
Manual Integrations
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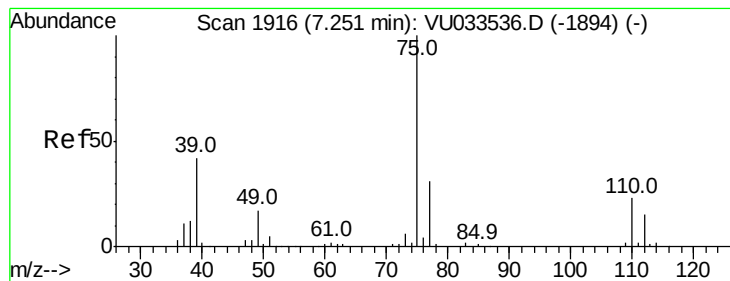
MMDadoda
 8/2/2019 8:29:28 AM



#38
 Bromodichloromethane
 Concen: 2.937 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033542.D
 Acq: 01 Aug 2019 11:40

Tgt Ion: 83 Resp: 8823
 Ion Ratio Lower Upper
 83 100
 85 64.4 45.1 83.9
 127 11.0 7.2 10.8#





#39

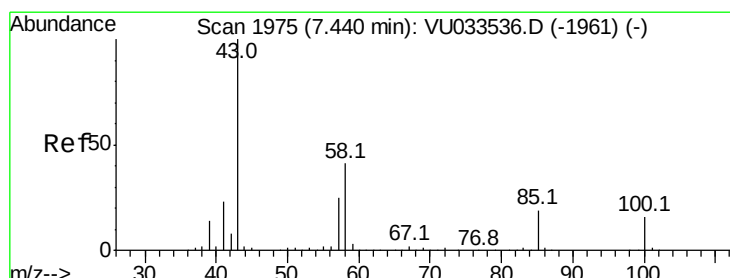
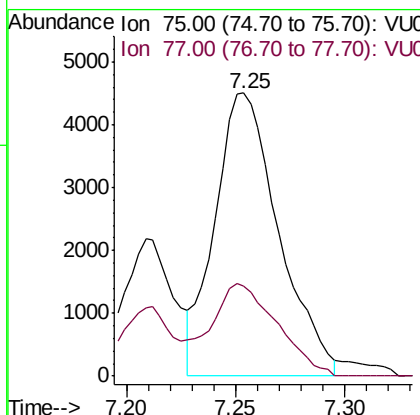
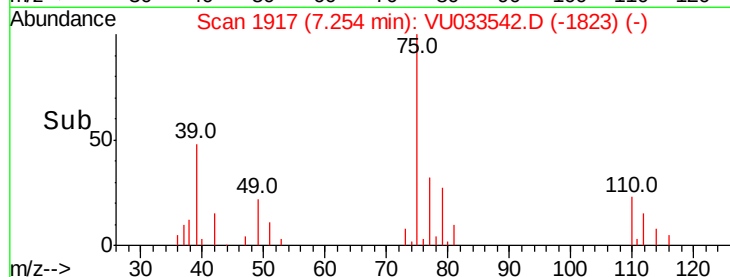
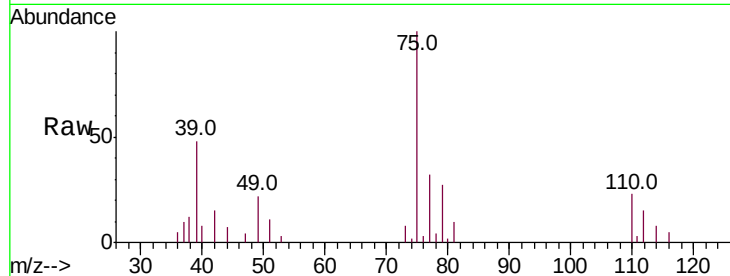
cis-1,3-Dichloropropene
 Concen: 2.521 ug/L m
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033542.D
 Acq: 01 Aug 2019 11:40

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

Tot Ion: 75 Resp: 9142
 Ion Ratio Lower Upper
 75 100
 77 32.0 22.3 41.5

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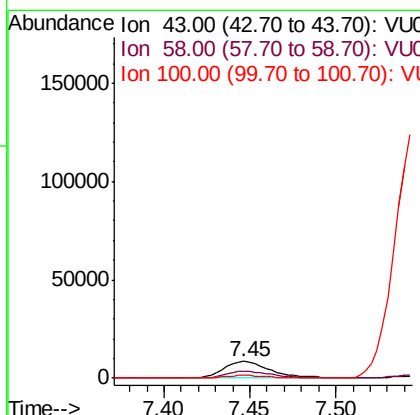
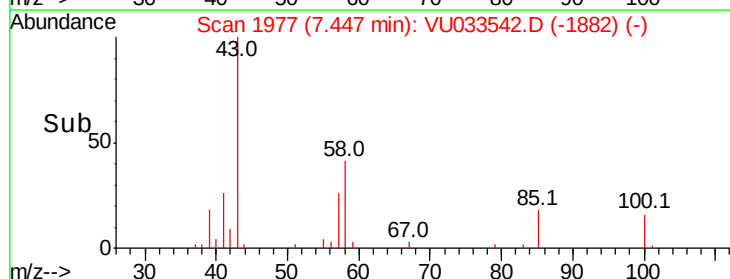
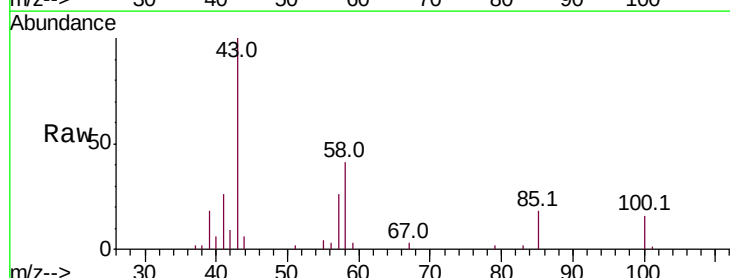
MMDadoda
 8/2/2019 8:29:28 AM

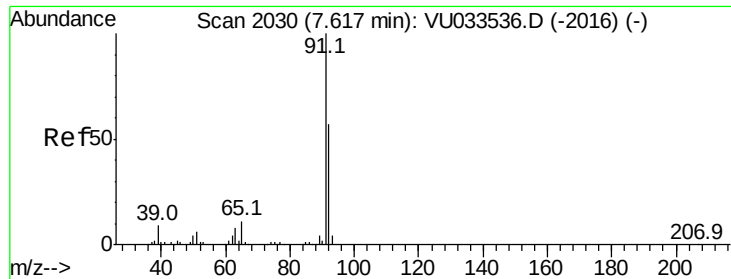


#40

4-Methyl-2-pentanone
 Concen: 5.008 ug/L
 RT: 7.45 min Scan# 1977
 Delta R.T. 0.01 min
 Lab File: VU033542.D
 Acq: 01 Aug 2019 11:40

Tgt Ion: 43 Resp: 16066
 Ion Ratio Lower Upper
 43 100
 58 41.8 32.8 49.2
 100 14.9 12.9 19.3





#42

Toluene

Concen: 2.752 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033542.D

Acq: 01 Aug 2019 11:40

Instrument :

MSVOA_U

ClientSampleId :

MDL05

Tot Ion: 91 Resp: 25684

Ion Ratio Lower Upper

91 100

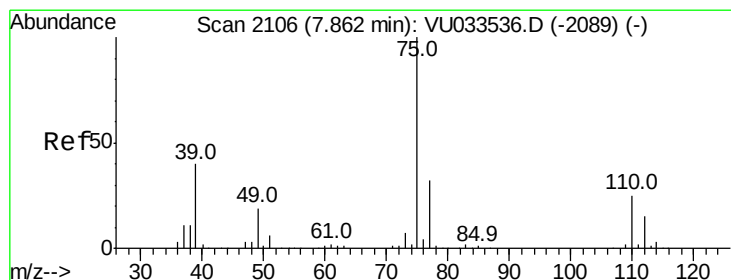
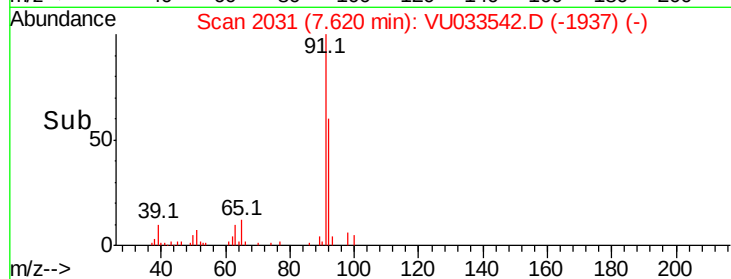
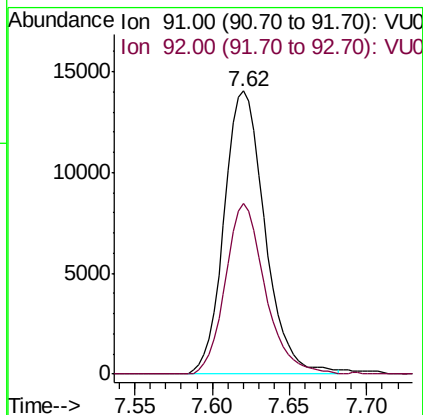
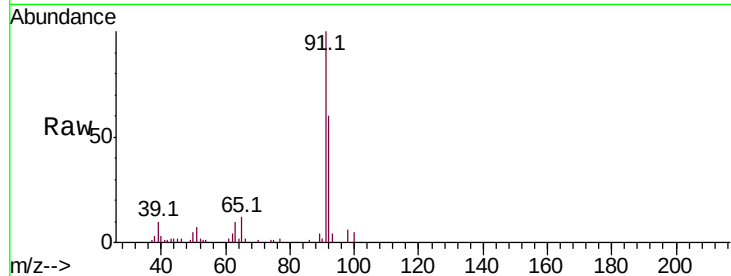
92 60.1 40.2 74.6

Manual Integrations

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MMDadoda

8/2/2019 8:29:28 AM



#44

trans-1,3-Dichloropropene

Concen: 2.554 ug/L m

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033542.D

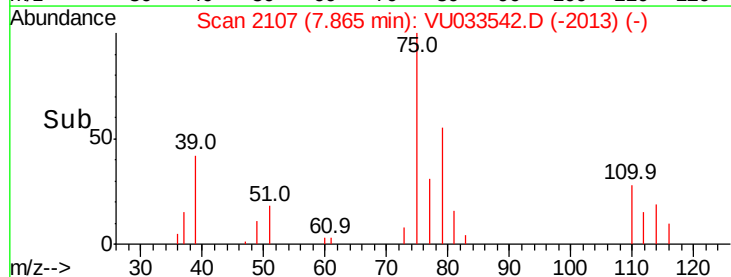
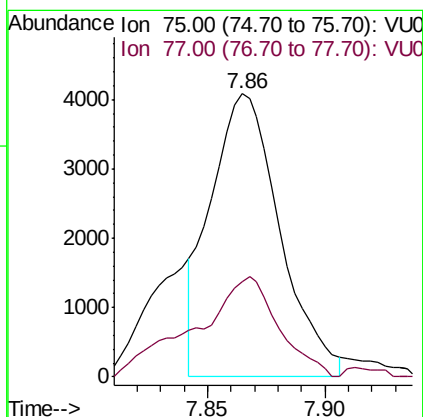
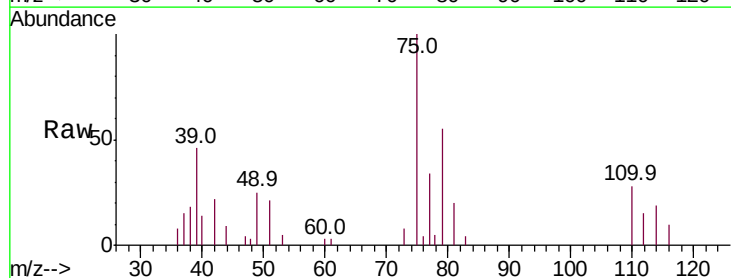
Acq: 01 Aug 2019 11:40

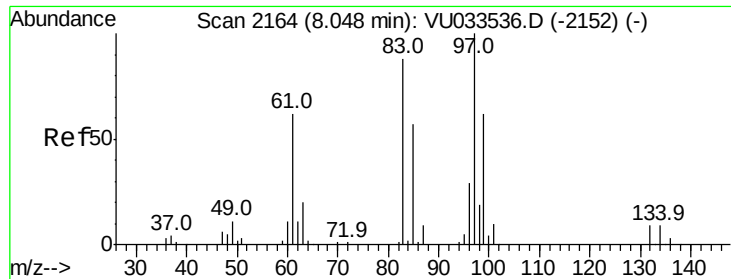
Tgt Ion: 75 Resp: 8371

Ion Ratio Lower Upper

75 100

77 33.8 22.7 42.1





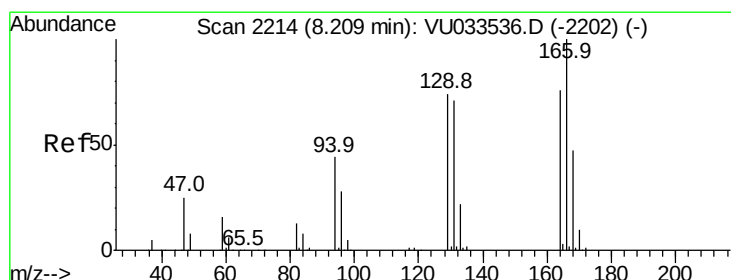
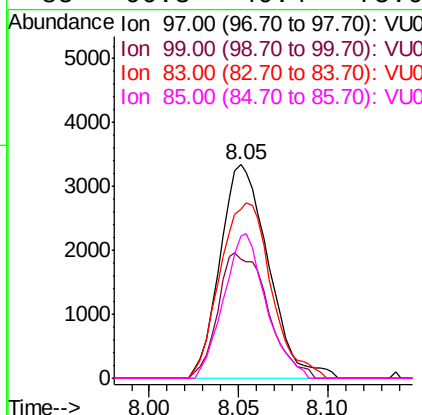
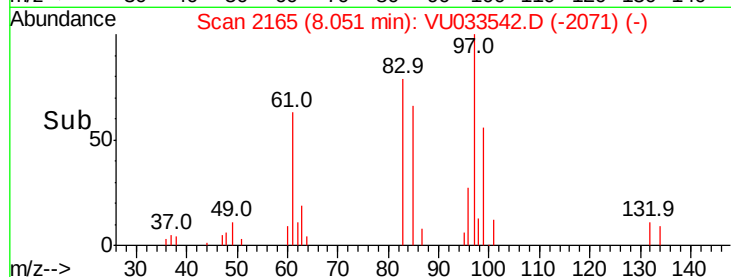
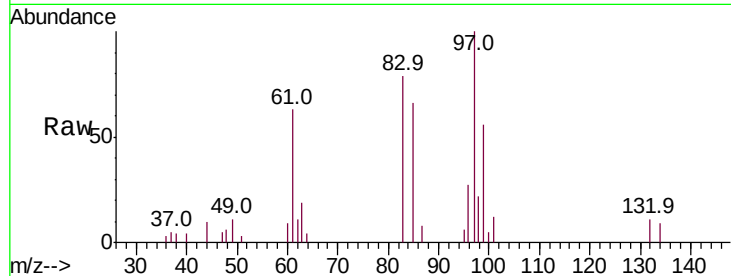
#45
1,1,2-Trichloroethane
Concen: 2.851 ug/L
RT: 8.05 min Scan# 2165
Delta R.T. 0.00 min
Lab File: VU033542.D
Acq: 01 Aug 2019 11:40

Instrument :
MSVOA_U
ClientSampled :
MDL05

Tot Ion:	97	Resp:	6289
Ion	Ratio	Lower	Upper
97	100		
99	55.7	44.4	82.4
83	79.4	61.5	114.1
85	66.3	40.4	75.0

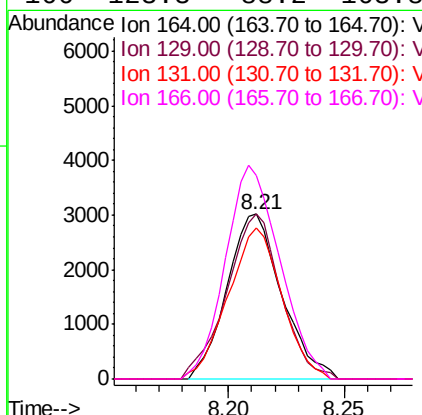
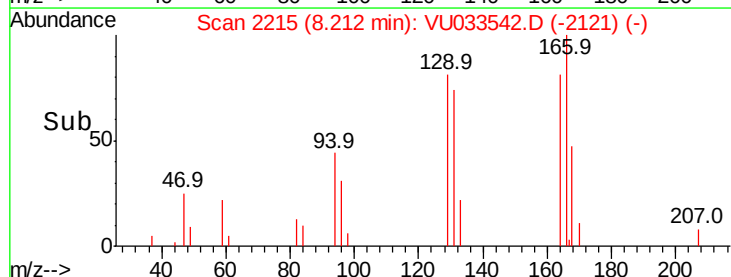
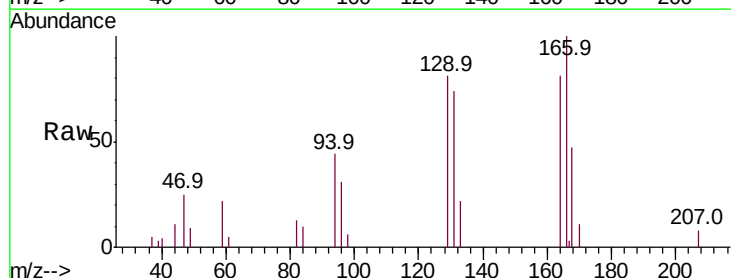
Manual Integrations
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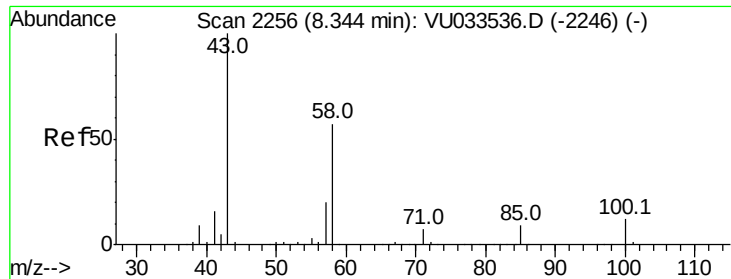
MMDadoda
8/2/2019 8:29:28 AM



#46
Tetrachloroethene
Concen: 2.652 ug/L
RT: 8.21 min Scan# 2215
Delta R.T. 0.00 min
Lab File: VU033542.D
Acq: 01 Aug 2019 11:40

Tgt Ion:	164	Resp:	4957
Ion	Ratio	Lower	Upper
164	100		
129	99.9	65.5	121.7
131	91.5	63.3	117.7
166	123.3	88.2	163.8





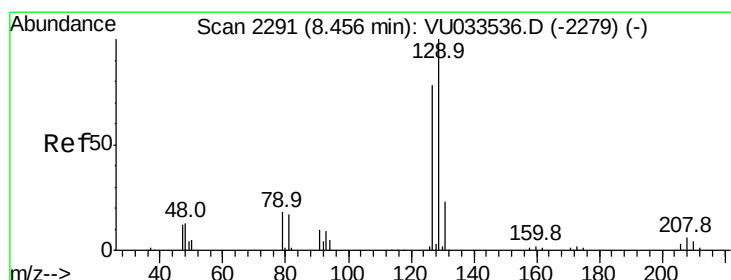
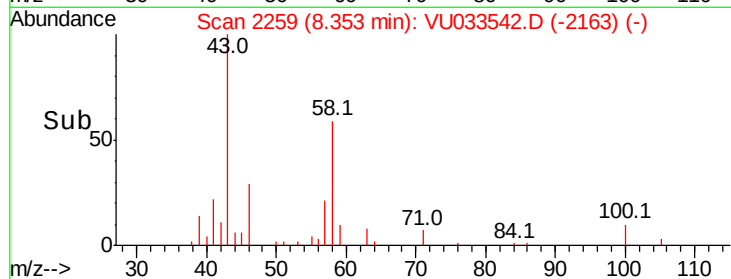
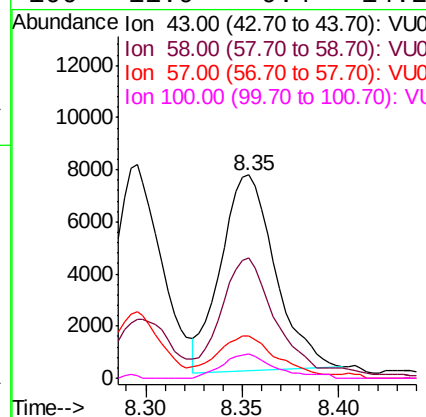
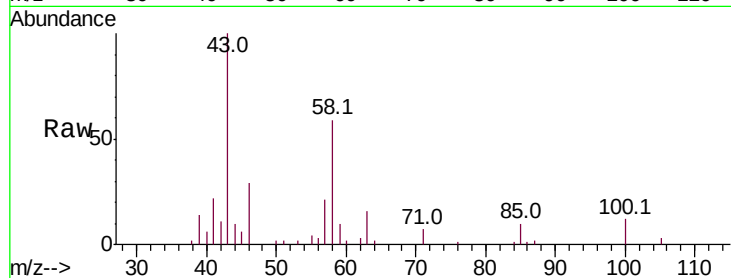
#48
2-Hexanone
Concen: 5.684 ug/L
RT: 8.35 min Scan# 2259
Delta R.T. 0.01 min
Lab File: VU033542.D
Acq: 01 Aug 2019 11:40

Instrument :
MSVOA_U
ClientSampled :
MDL05

Tot Ion	Ratio	Lower	Upper
43	100		
58	53.8	45.8	68.6
57	24.8	15.8	23.6
100	11.9	9.4	14.2

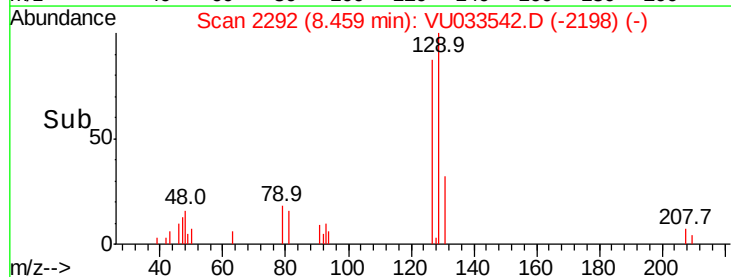
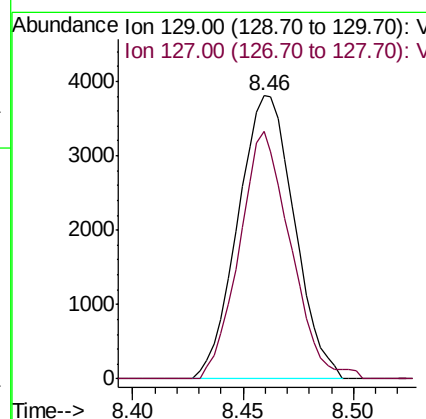
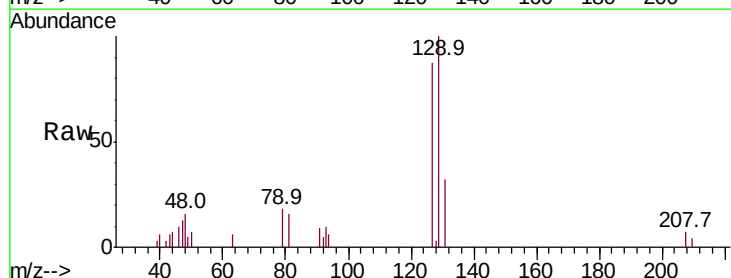
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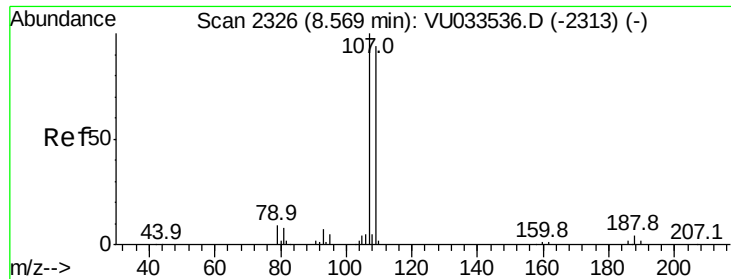
MMDadoda
8/2/2019 8:29:28 AM



#49
Dibromochloromethane
Concen: 2.690 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033542.D
Acq: 01 Aug 2019 11:40

Tgt Ion	Ratio	Lower	Upper
129	100		
127	87.3	53.8	99.8





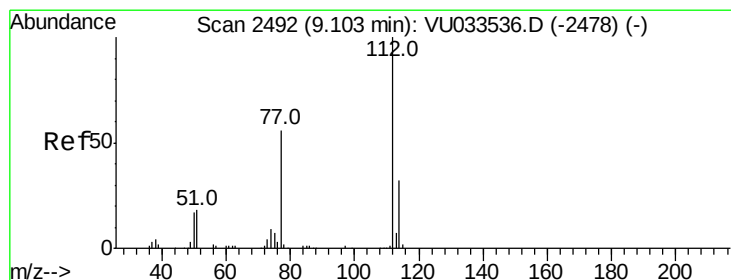
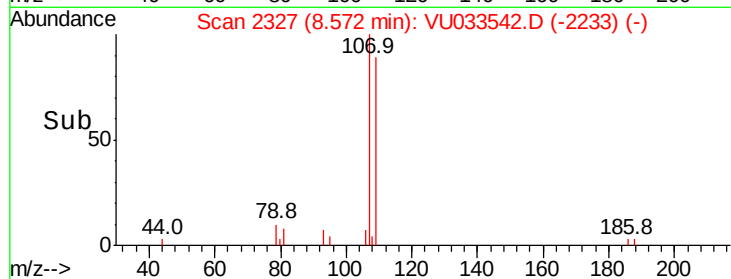
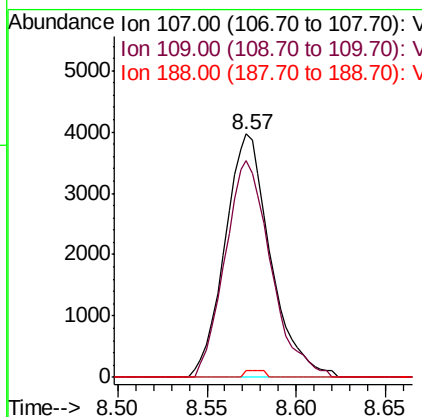
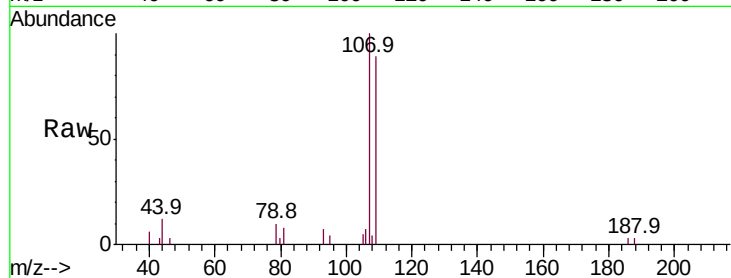
#50
1,2-Dibromoethane
Concen: 2.880 ug/L
RT: 8.57 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VU033542.D
Acq: 01 Aug 2019 11:40

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
107	100		
109	88.8	66.8	124.0
188	2.8	3.0	4.4#

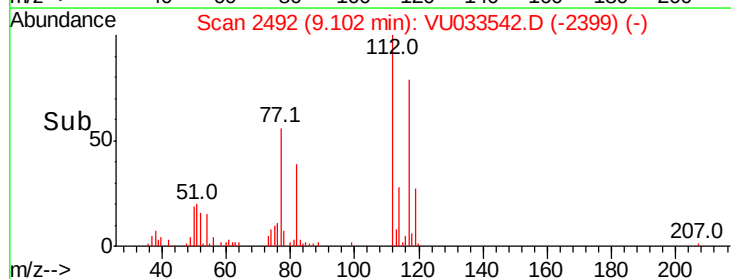
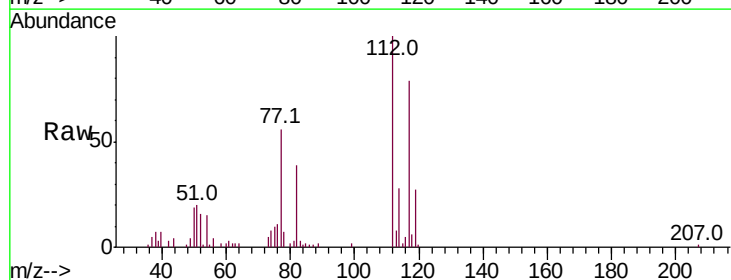
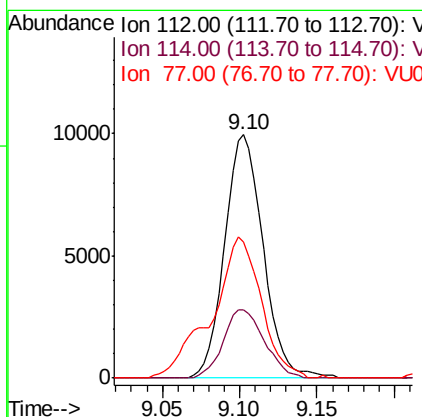
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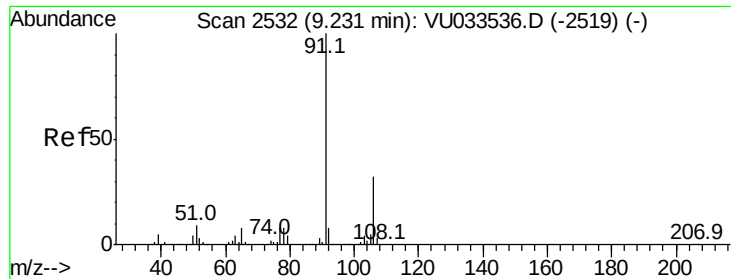
MMDadoda
8/2/2019 8:29:28 AM



#51
Chlorobenzene
Concen: 2.818 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. -0.00 min
Lab File: VU033542.D
Acq: 01 Aug 2019 11:40

Tgt Ion	Ratio	Lower	Upper
112	100		
114	27.9	22.3	41.5
77	56.2	45.6	68.4





#52

Ethylbenzene

Concen: 2.556 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033542.D

Acq: 01 Aug 2019 11:40

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion: 91 Resp: 25687

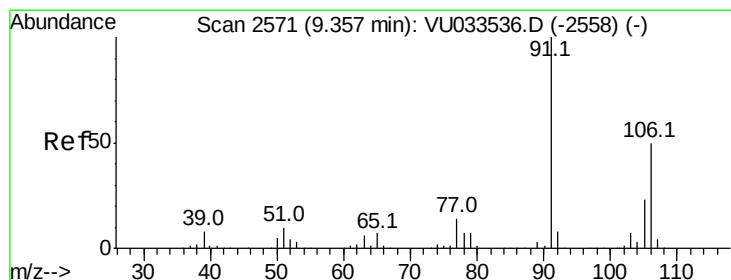
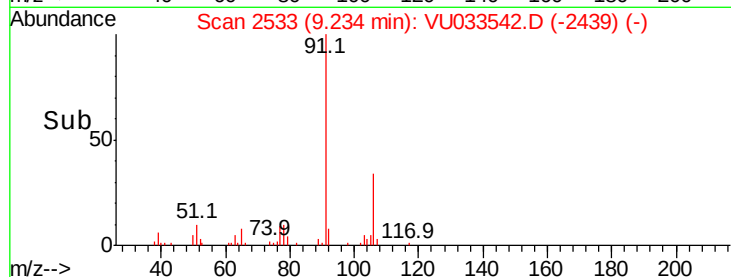
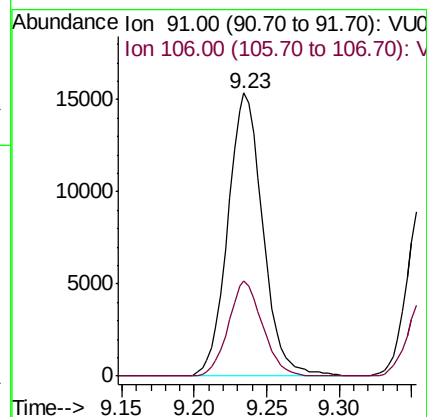
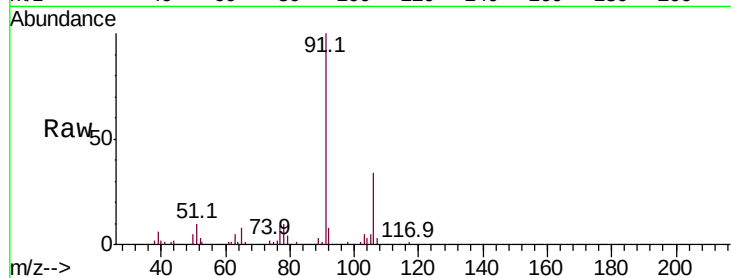
Ion Ratio Lower Upper

91 100

106 33.7 22.2 41.2

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#53

m,p-Xylene

Concen: 2.297 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033542.D

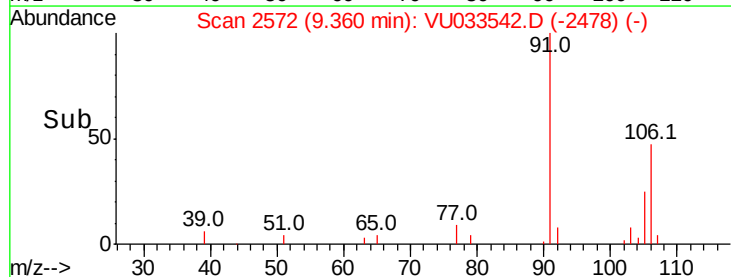
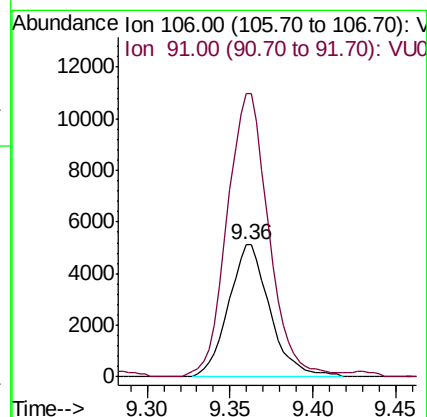
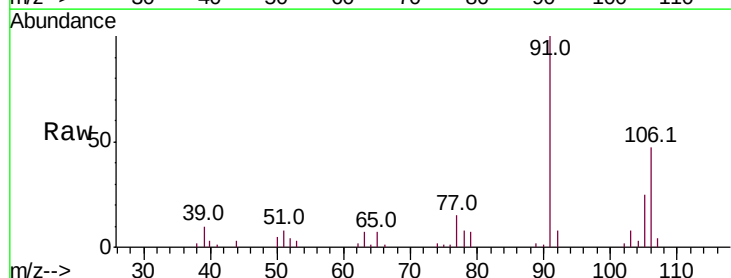
Acq: 01 Aug 2019 11:40

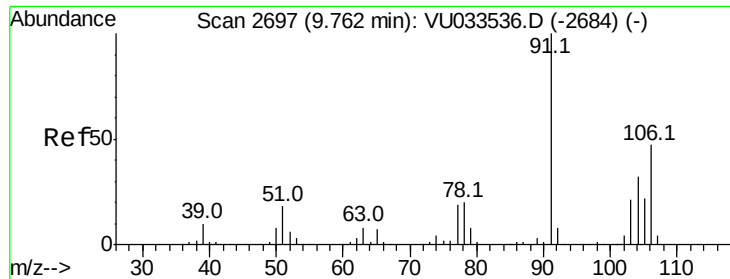
Tgt Ion: 106 Resp: 8865

Ion Ratio Lower Upper

106 100

91 214.5 143.0 265.6





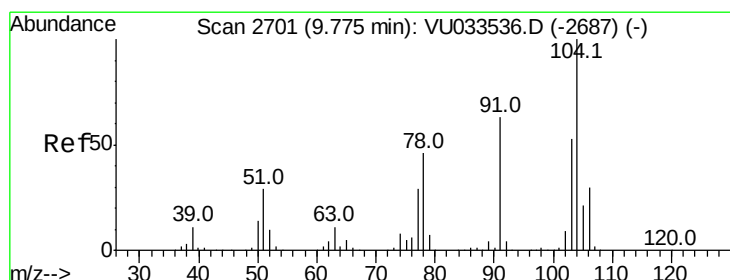
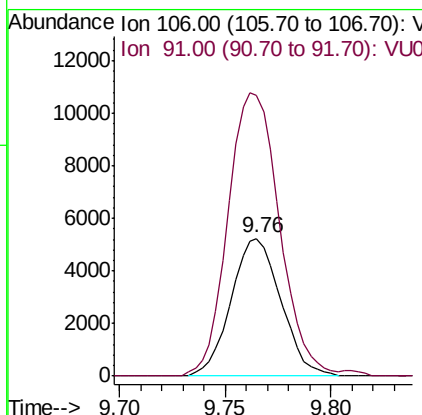
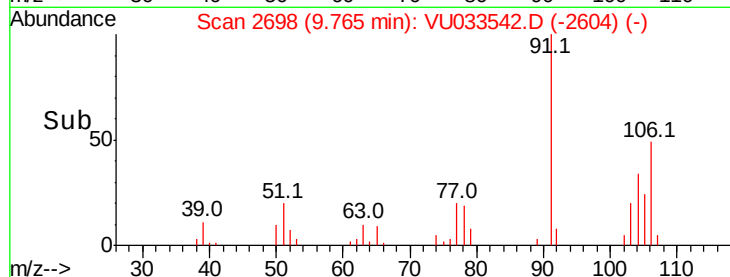
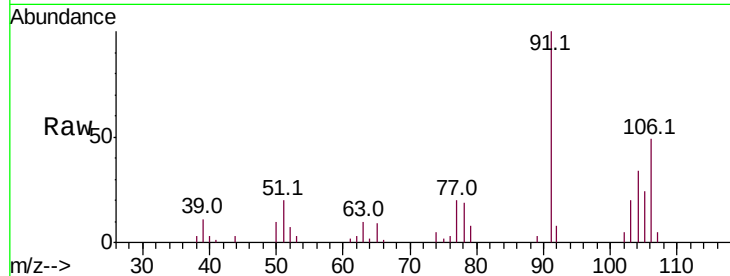
#54
o-xylene
Concen: 2.289 ug/L
RT: 9.76 min Scan# 2698
Delta R.T. 0.00 min
Lab File: VU033542.D
Acq: 01 Aug 2019 11:40

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion:106 Resp: 8568
Ion Ratio Lower Upper
106 100
91 203.7 148.4 275.6

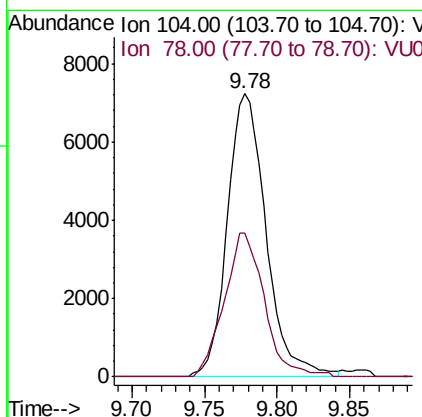
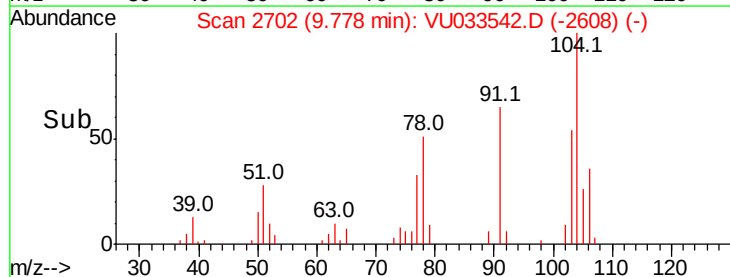
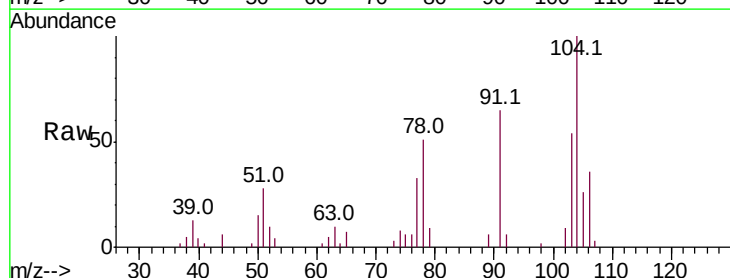
Manual Integrations
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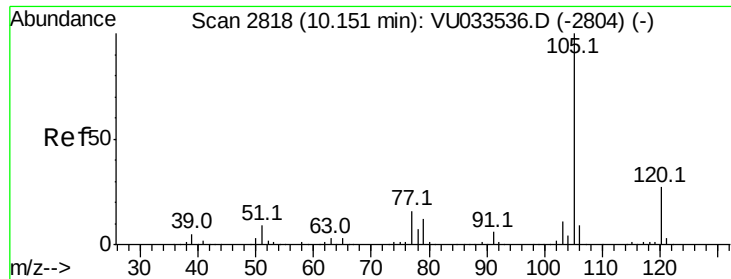
MMDadoda
8/2/2019 8:29:28 AM



#55
Styrene
Concen: 2.110 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU033542.D
Acq: 01 Aug 2019 11:40

Tgt Ion:104 Resp: 13411
Ion Ratio Lower Upper
104 100
78 50.6 32.2 59.8





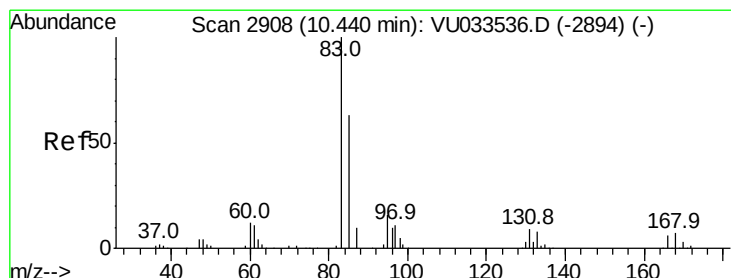
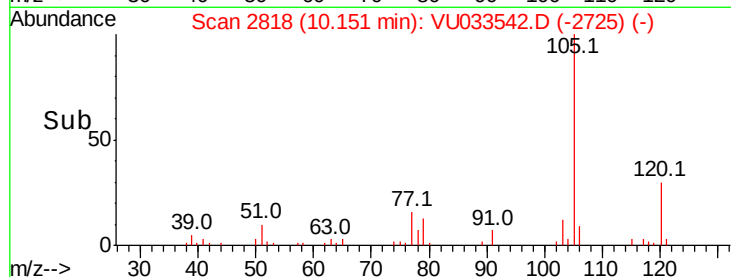
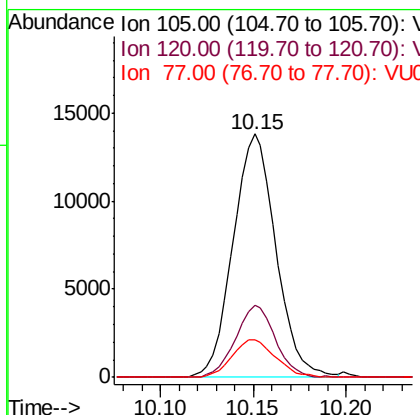
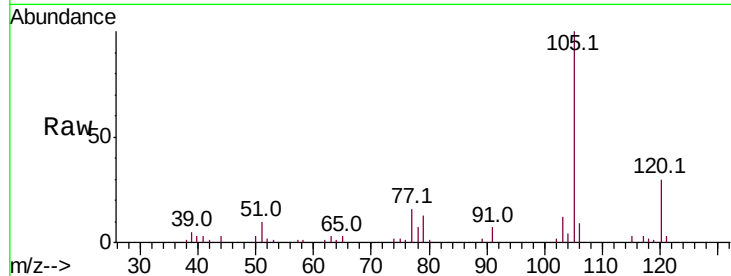
#56
Isopropylbenzene
Concen: 2.257 ug/L
RT: 10.15 min Scan# 2818
Delta R.T. -0.00 min
Lab File: VU033542.D
Acq: 01 Aug 2019 11:40

Instrument :
MSVOA_U
ClientSampled :
MDL05

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.4	21.4	32.0
77	15.7	12.5	18.7

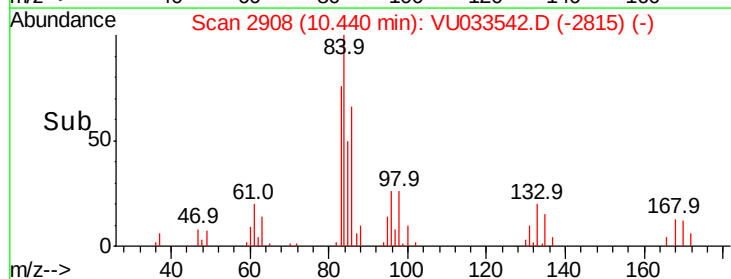
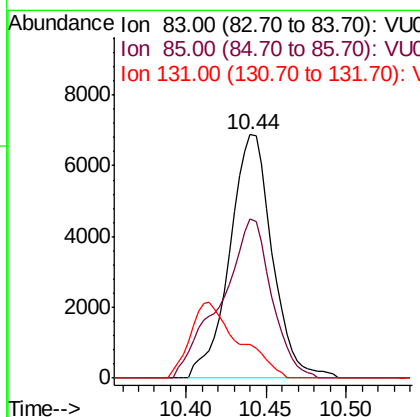
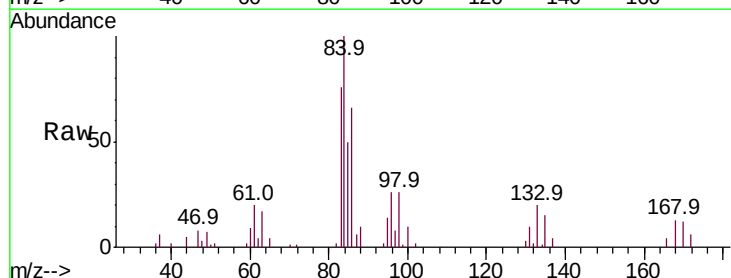
Manual Integrations
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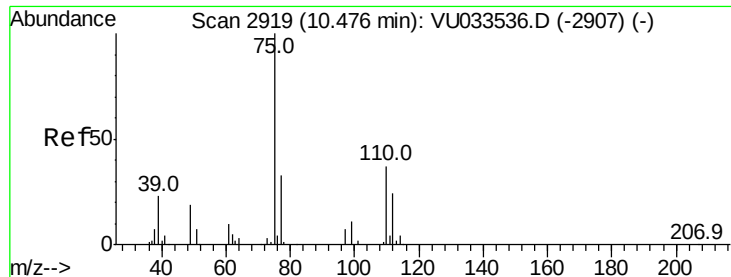
MMDadoda
8/2/2019 8:29:28 AM



#58
1,1,2,2-Tetrachloroethane
Concen: 3.137 ug/L
RT: 10.44 min Scan# 2908
Delta R.T. -0.00 min
Lab File: VU033542.D
Acq: 01 Aug 2019 11:40

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	45.4	84.4
131	13.8	7.9	11.9#





#59

1,2,3-Trichloropropane

Concen: 2.875 ug/L

RT: 10.48 min Scan# 2920

Delta R.T. 0.00 min

Lab File: VU033542.D

Acq: 01 Aug 2019 11:40

Instrument :

MSVOA_U

ClientSampleId :

MDL05

Tot Ion: 75 Resp: 8816

Ion Ratio Lower Upper

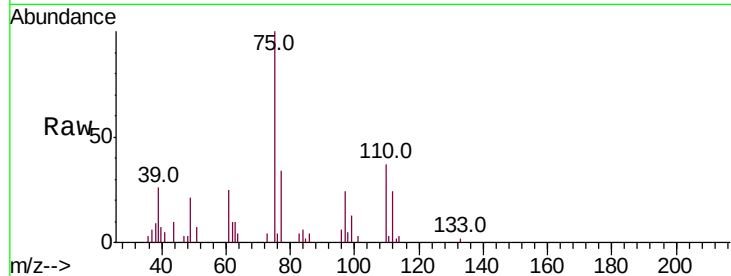
75 100

77 32.2 25.8 38.6

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Abundance Ion 75.00 (74.70 to 75.70): VU033536.D (-2907) (-)

Ion 77.00 (76.70 to 77.70): VU033536.D (-2907) (-)

10.48

6000

5000

4000

3000

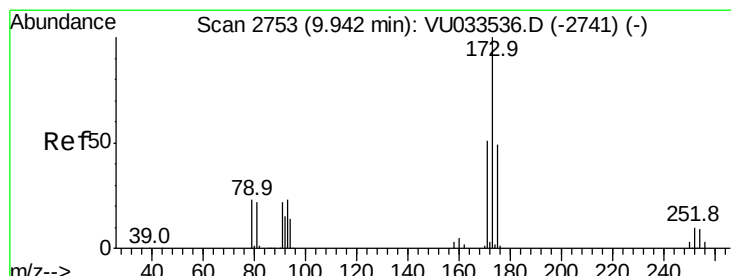
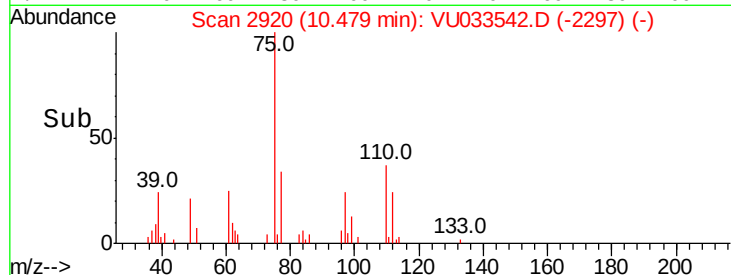
2000

1000

0

10.45 10.50

Time-->



#61

Bromoform

Concen: 2.765 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VU033542.D

Acq: 01 Aug 2019 11:40

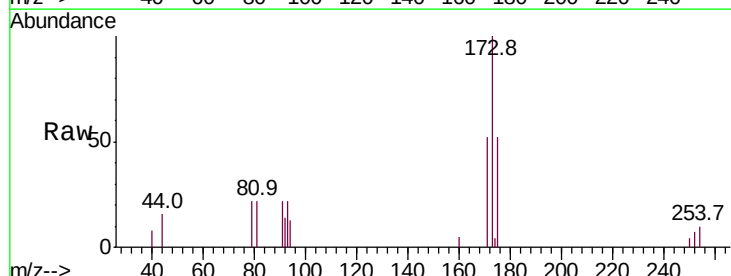
Tgt Ion: 173 Resp: 4868

Ion Ratio Lower Upper

173 100

175 54.9 38.7 58.1

254 7.1 7.5 11.3#



Abundance Ion 173.00 (172.70 to 173.70): VU033536.D (-2741) (-)

Ion 175.00 (174.70 to 175.70): VU033536.D (-2741) (-)

Ion 254.00 (253.70 to 254.70): VU033536.D (-2741) (-)

9.94

4000

3000

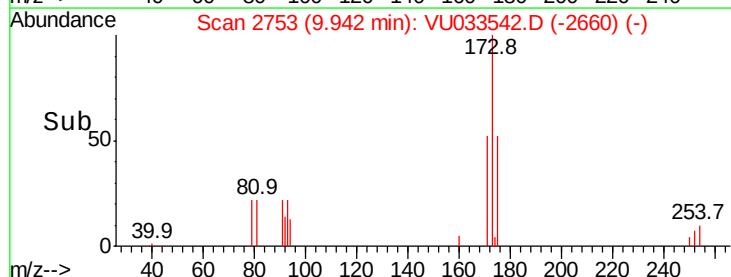
2000

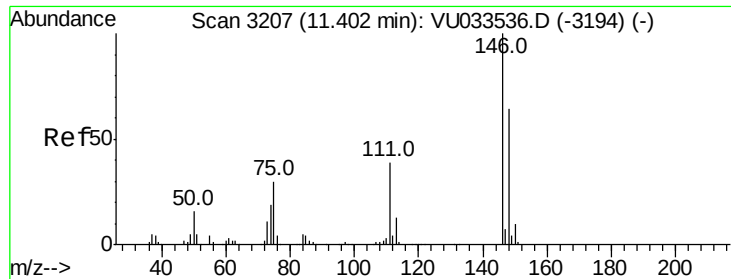
1000

0

9.90 9.95 10.00

Time-->





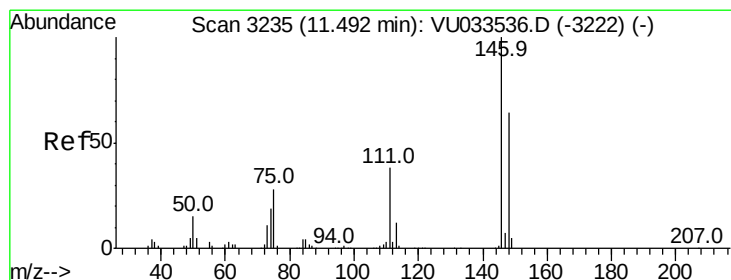
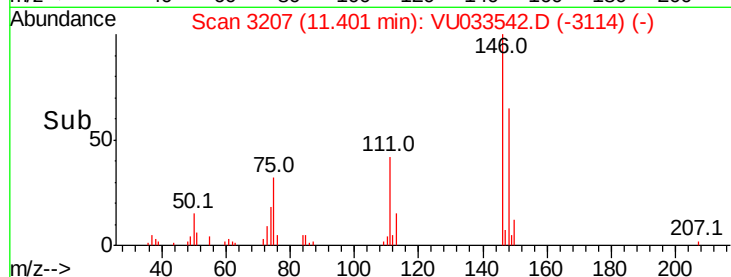
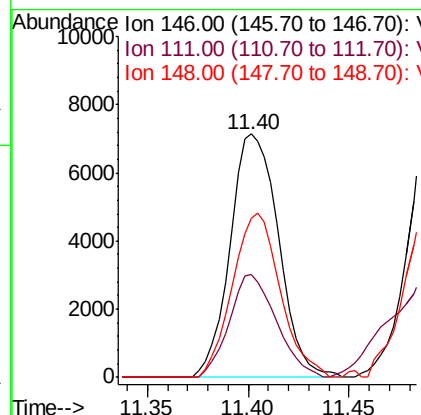
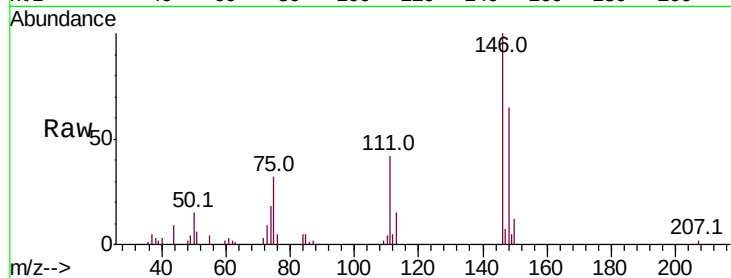
#62
 1,3-Dichlorobenzene
 Concen: 2.676 ug/L
 RT: 11.40 min Scan# 3207
 Delta R.T. -0.00 min
 Lab File: VU033542.D
 Acq: 01 Aug 2019 11:40

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.2	28.1	52.1
148	65.2	45.0	83.6

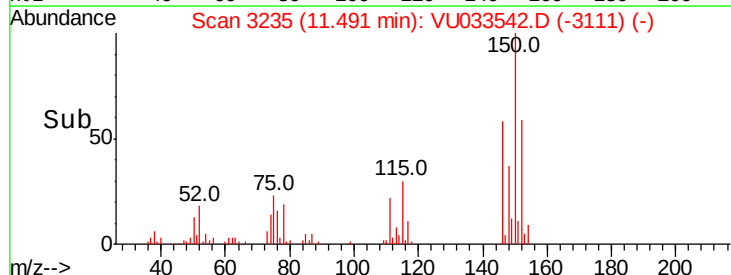
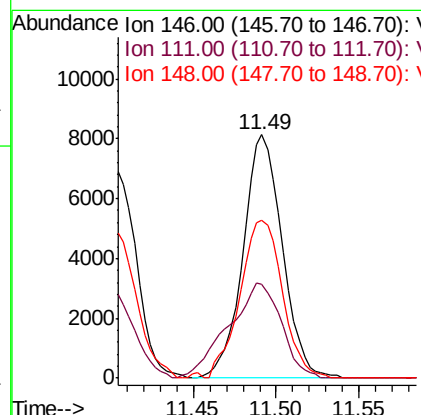
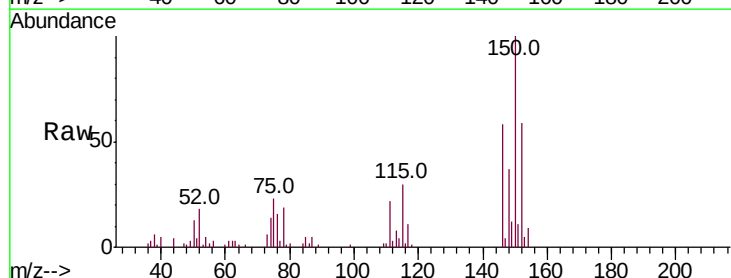
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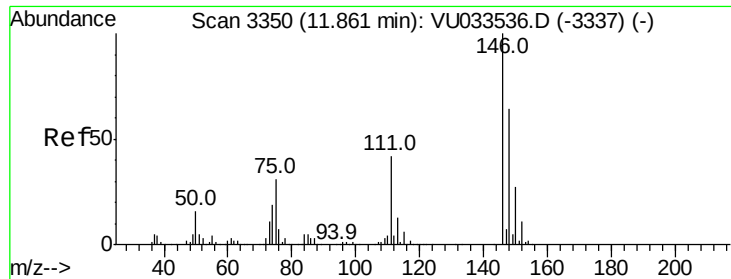
MMDadoda
 8/2/2019 8:29:28 AM



#63
 1,4-Dichlorobenzene
 Concen: 2.877 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU033542.D
 Acq: 01 Aug 2019 11:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.7	27.2	50.4
148	64.6	44.5	82.7





#65

1,2-Dichlorobenzene

Concen: 3.028 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VU033542.D

Acq: 01 Aug 2019 11:40

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion:146 Resp: 13706

Ion Ratio Lower Upper

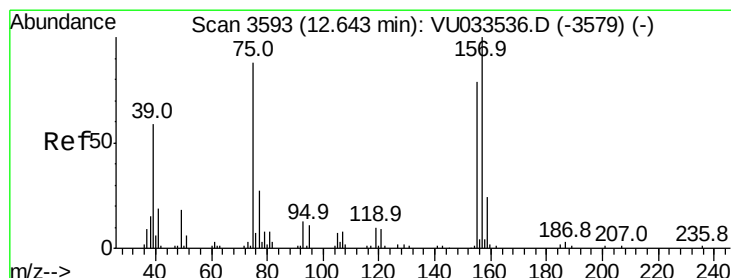
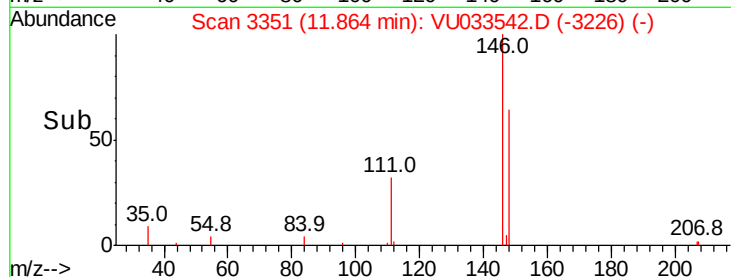
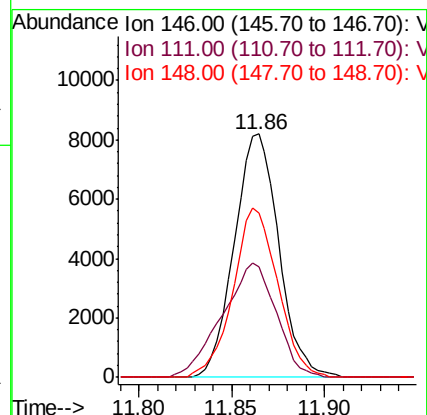
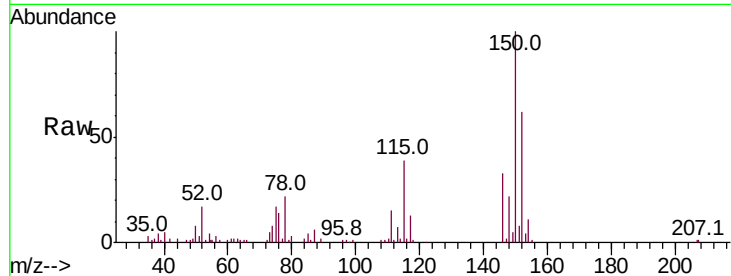
146 100

111 45.4 31.7 47.5

148 67.7 50.3 75.5

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#66

1,2-Dibromo-3-chloropropane

Concen: 2.582 ug/L

RT: 12.65 min Scan# 3594

Delta R.T. 0.00 min

Lab File: VU033542.D

Acq: 01 Aug 2019 11:40

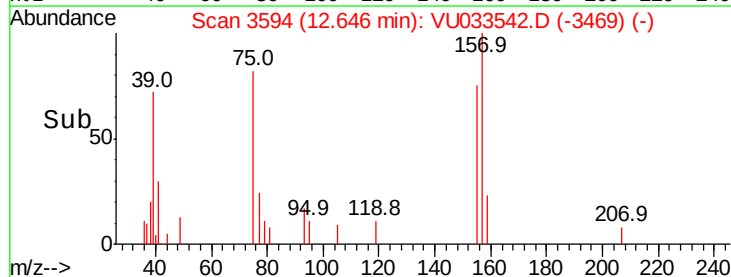
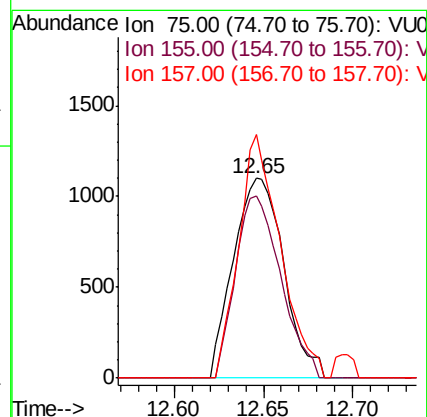
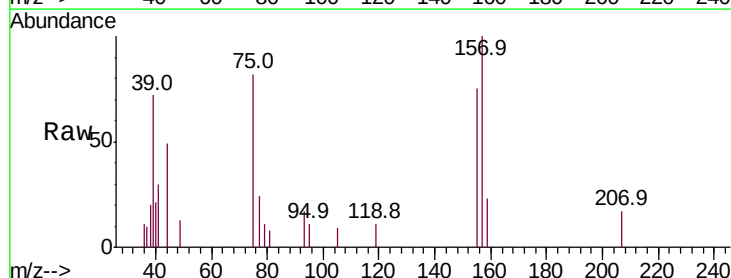
Tgt Ion: 75 Resp: 2159

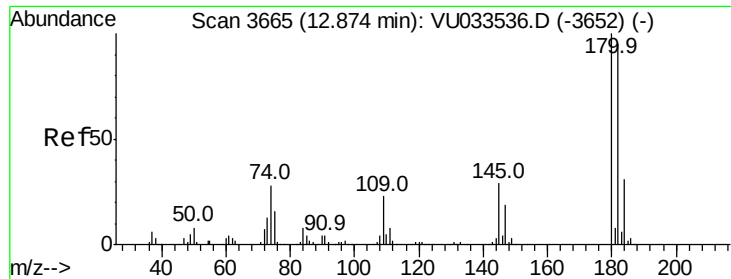
Ion Ratio Lower Upper

75 100

155 91.2 69.4 104.0

157 121.8 91.8 137.8





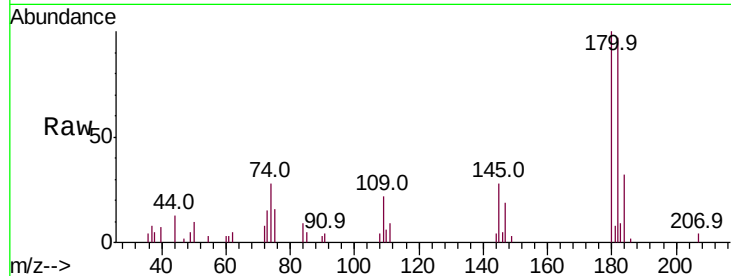
#67
 1,3,5-Trichlorobenzene
 Concen: 2.385 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033542.D
 Acq: 01 Aug 2019 11:40

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

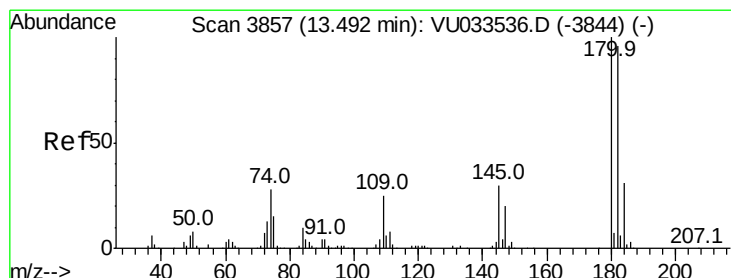
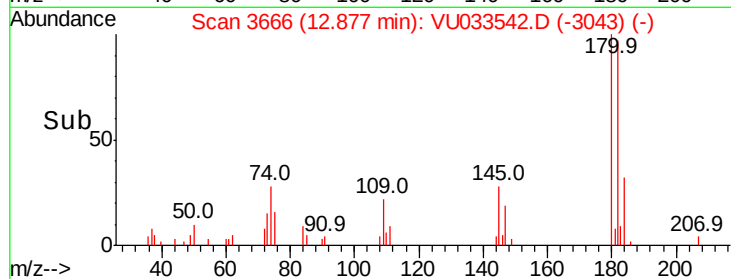
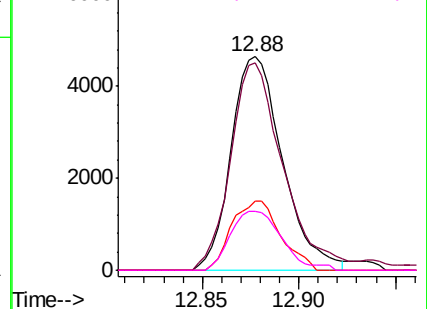
Tot Ion	Ratio	Lower	Upper
180	100		
182	98.5	75.6	113.4
184	30.6	24.2	36.2
145	26.9	22.7	34.1

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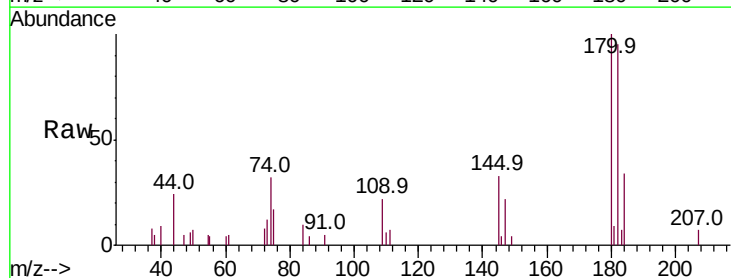


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

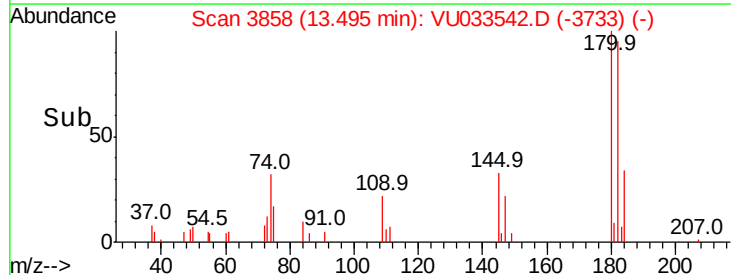
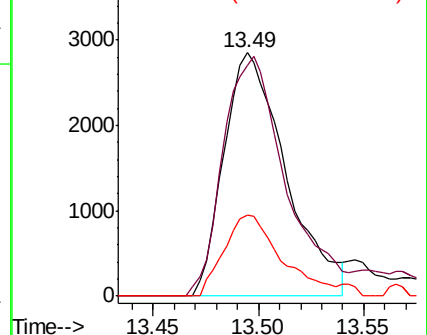


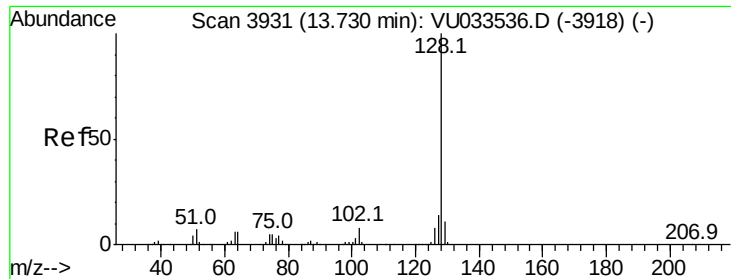
#68
 1,2,4-trichlorobenzene
 Concen: 1.889 ug/L
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.00 min
 Lab File: VU033542.D
 Acq: 01 Aug 2019 11:40

Tgt Ion	Ratio	Lower	Upper
180	100		
182	100.0	75.8	113.8
145	30.8	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: 1.612 ug/L m

RT: 13.74 min Scan# 3933

Delta R.T. 0.01 min

Lab File: VU033542.D

Acq: 01 Aug 2019 11:40

Instrument :

MSVOA_U

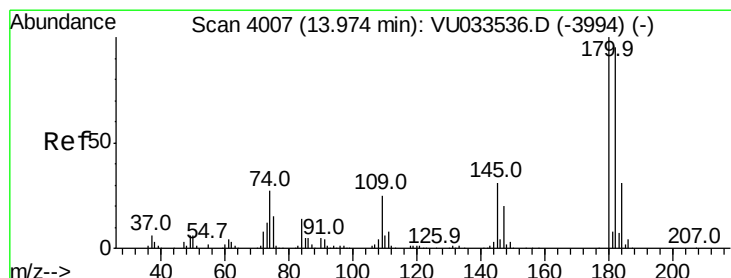
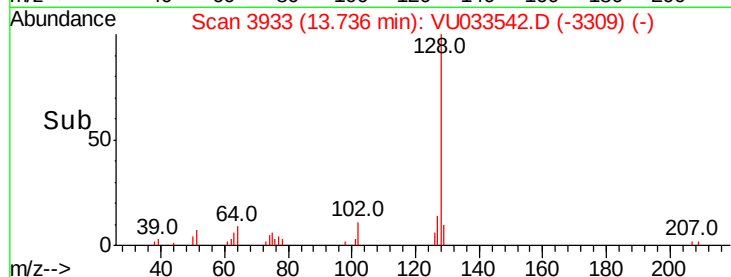
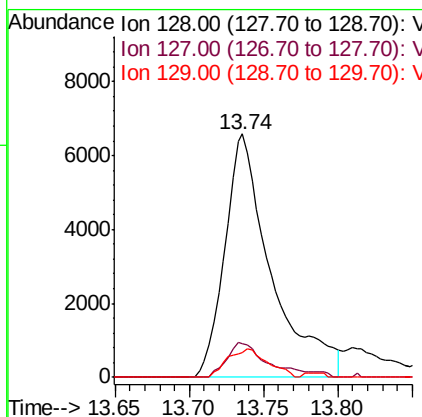
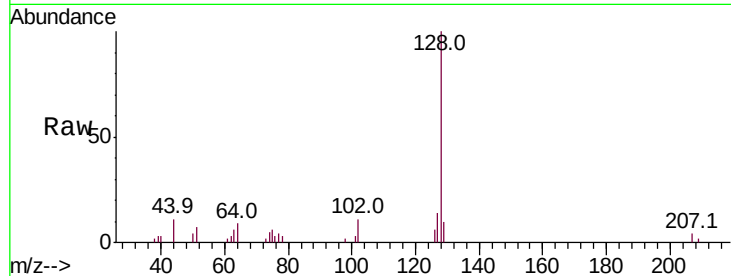
ClientSampleId :

MDL05

Tot Ion:	128	Resp:	14277
Ion Ratio	Lower	Upper	
128	100		
127	11.1	10.8	16.2
129	10.1	8.7	13.1

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#70

1,2,3-Trichlorobenzene

Concen: 2.169 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. 0.01 min

Lab File: VU033542.D

Acq: 01 Aug 2019 11:40

Tgt Ion:	180	Resp:	7040
Ion Ratio	Lower	Upper	
180	100		
182	92.6	75.5	113.3
145	27.4	24.4	36.6

