

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR101918\
 Data File : VR026146.D
 Acq On : 19 Oct 2018 12:58
 Operator : SY/MD
 Sample : MDL
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 12:17:32 PM

Quant Time: Oct 20 04:42:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR101518WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Oct 20 01:53:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	558216	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	478084	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.23	152	152522	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.15	65	196637	4.02	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.40%
7) Chloroethane-d5	2.63	69	190778	4.54	ug/L	0.01
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.80%
11) 1,1-Dichloroethene-d2	3.60	63	368758	3.07	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	61.40%
20) 2-Butanone-d5	6.59	46	222308	55.43	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.86%
24) Chloroform-d	7.20	84	354953	4.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.40%
26) 1,2-Dichloroethane-d4	7.90	65	151483	4.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.80%
32) Benzene-d6	7.85	84	668888	4.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.00%
36) 1,2-Dichloropropane-d6	8.90	67	193080	4.87	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.40%
41) Toluene-d8	9.97	98	601662	4.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.00%
43) trans-1,3-Dichloropropene-	10.24	79	39899	3.84	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	76.80%
46) 2-Hexanone-d5	10.59	63	175445	58.40	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	116.80%
57) 1,1,2,2-Tetrachloroethane-	12.36	84	76434	4.91	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.20%
64) 1,2-Dichlorobenzene-d4	13.51	152	115252	4.78	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.83	85	9741m	0.260	ug/L	
3) Chloromethane	2.01	50	16150	0.271	ug/L	89
5) Vinyl chloride	2.16	62	17016	0.287	ug/L #	69
6) Bromomethane	2.53	94	12245	0.313	ug/L	94
8) Chloroethane	2.66	64	12638m	0.344	ug/L	
9) Trichlorofluoromethane	2.93	101	23857m	0.279	ug/L	
10) 1,1,2-Trichloro-1,2,2-trif	3.69	101	18324m	0.359	ug/L	
12) 1,1-Dichloroethene	3.63	96	18000	0.332	ug/L #	1
13) Acetone	3.70	43	13261	3.198	ug/L	94
14) Carbon disulfide	3.93	76	31085	0.219	ug/L #	87
15) Methyl Acetate	4.20	43	4246m	0.392	ug/L	
16) Methylene chloride	4.40	84	17764	0.361	ug/L	81
17) Methyl tert-butyl Ether	4.90	73	12071	0.245	ug/L	91
18) trans-1,2-Dichloroethene	4.88	96	11723	0.286	ug/L #	83
19) 1,1-Dichloroethane	5.70	63	21123	0.274	ug/L #	94
21) 2-Butanone	6.69	43	13275	2.775	ug/L	98
22) cis-1,2-Dichloroethene	6.68	96	11802	0.304	ug/L #	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	7.04	128	3562	0.327	ug/L #	61
25) Chloroform	7.23	83	24375	0.324	ug/L	89
27) 1,2-Dichloroethane	7.99	62	10762	0.292	ug/L #	96
29) 1,1,1-Trichloroethane	7.43	97	17863	0.273	ug/L	98
30) Cyclohexane	7.51	56	12836	0.196	ug/L #	85
31) Carbon tetrachloride	7.64	117	15274	0.257	ug/L	99
33) Benzene	7.90	78	48914m	0.273	ug/L	
34) Trichloroethene	8.71	95	12223	0.266	ug/L	92
35) Methylcyclohexane	8.96	83	13812	0.202	ug/L #	83
37) 1,2-Dichloropropane	8.99	63	10749	0.284	ug/L #	95
38) Bromodichloromethane	9.28	83	10846	0.266	ug/L	83
39) cis-1,3-Dichloropropene	9.72	75	9739	0.225	ug/L #	66
40) 4-Methyl-2-pentanone	9.87	43	25453	2.202	ug/L #	92
42) Toluene	10.03	91	51269	0.271	ug/L	98
44) trans-1,3-Dichloropropene	10.26	75	9947	0.329	ug/L	100
45) 1,1,2-Trichloroethane	10.45	97	5520	0.346	ug/L	91
47) Tetrachloroethene	10.51	164	7912	0.241	ug/L	86
48) 2-Hexanone	10.63	43	21362	2.830	ug/L	95
49) Dibromochloromethane	10.79	129	4848	0.270	ug/L	79
50) 1,2-Dibromoethane	10.89	107	3547	0.257	ug/L #	78
51) Chlorobenzene	11.31	112	28065	0.268	ug/L	96
52) Ethylbenzene	11.39	91	49785	0.229	ug/L	96
53) m,p-Xylene	11.50	106	16382	0.207	ug/L	96
54) o-Xylene	11.83	106	14341	0.197	ug/L	97
55) Styrene	11.84	104	20360	0.182	ug/L	93
56) Isopropylbenzene	12.13	105	37162	0.184	ug/L	97
58) 1,1,1,2,2-Tetrachloroethane	12.38	83	5443	0.335	ug/L #	94
59) 1,2,3-Trichloropropane	12.43	75	3534	0.297	ug/L #	87
61) Bromoform	12.01	173	1721	0.325	ug/L #	91
62) 1,3-Dichlorobenzene	13.16	146	12275	0.242	ug/L	88
63) 1,4-Dichlorobenzene	13.24	146	15244	0.291	ug/L	94
65) 1,2-Dichlorobenzene	13.53	146	12391	0.305	ug/L	86
66) 1,2-Dibromo-3-chloropropan	14.14	75	462m	0.279	ug/L	
67) 1,3,5-Trichlorobenzene	14.29	180	8399	0.272	ug/L	92
68) 1,2,4-trichlorobenzene	14.79	180	4042	0.224	ug/L #	87
69) Naphthalene	15.00	128	2878	0.164	ug/L #	68
70) 1,2,3-Trichlorobenzene	15.18	180	3346	0.267	ug/L #	89

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

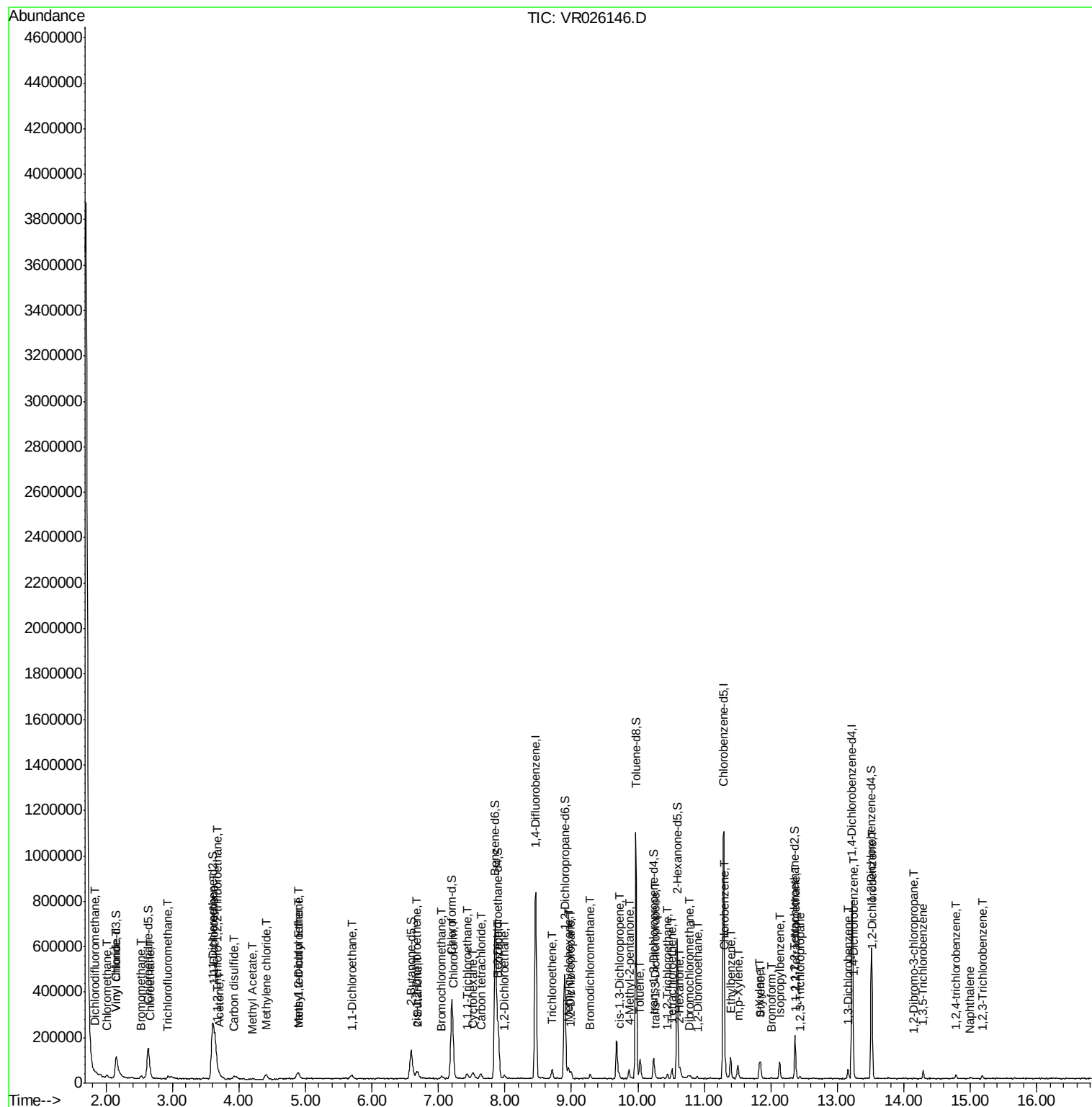
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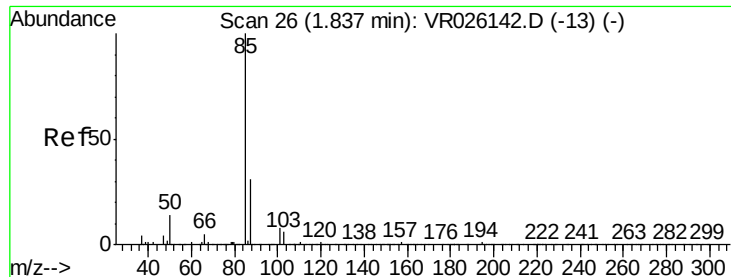
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#2

Dichlorodifluoromethane

Concen: 0.260 ug/L m

RT: 1.83 min Scan# 25

Delta R.T. -0.01 min

Lab File: VR026146.D

Acq: 19 Oct 2018 12:58

Instrument :

MSVOA_R

ClientSampled :

MDL

Tot Ion: 85 Resp: 9741

Ion Ratio Lower Upper

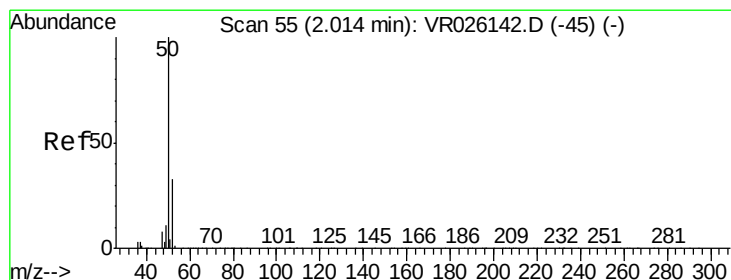
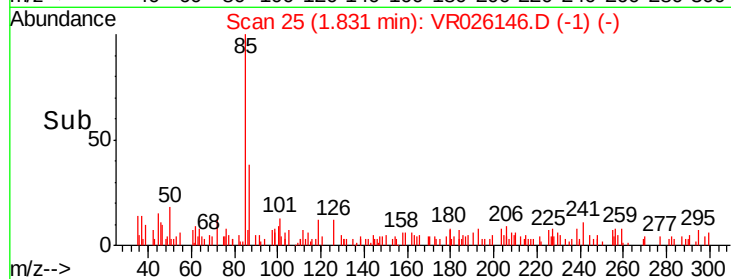
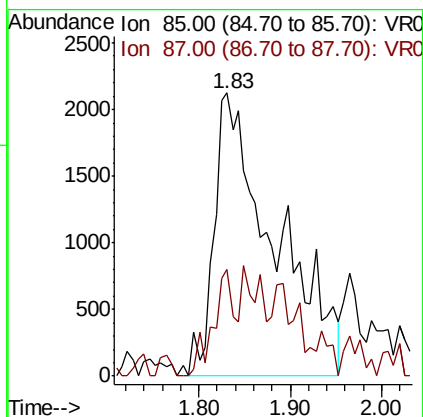
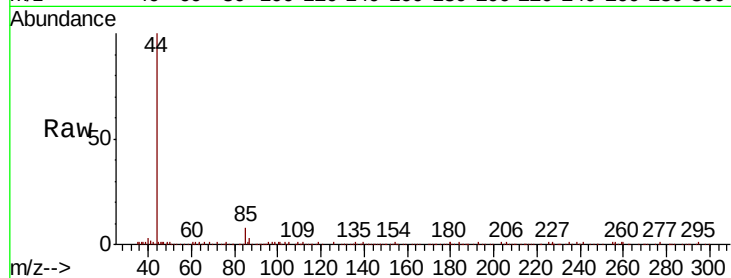
85 100

87 13.5 23.4 35.2#

Manual Integrations
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#3

Chloromethane

Concen: 0.271 ug/L

RT: 2.01 min Scan# 55

Delta R.T. -0.00 min

Lab File: VR026146.D

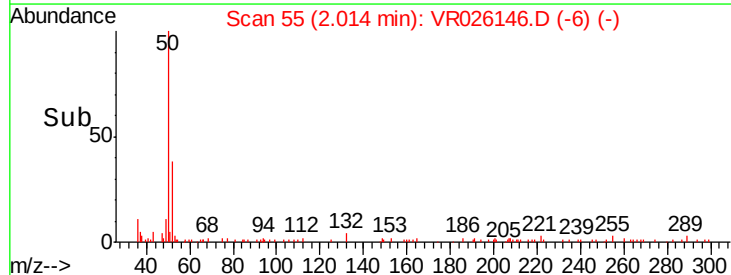
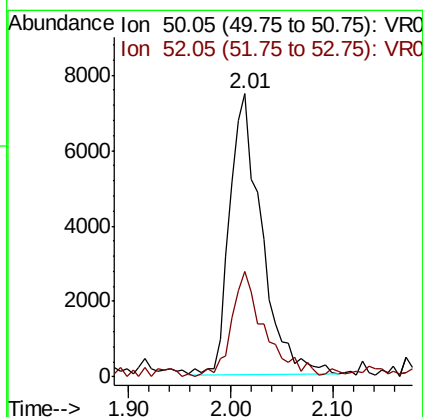
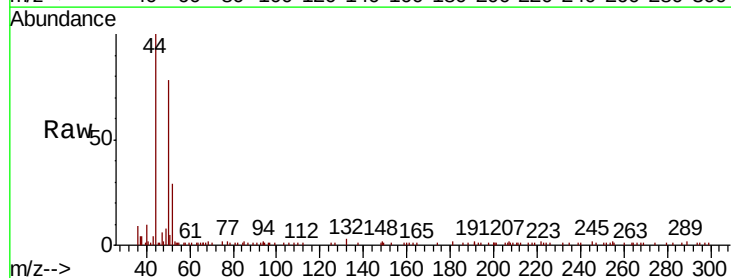
Acq: 19 Oct 2018 12:58

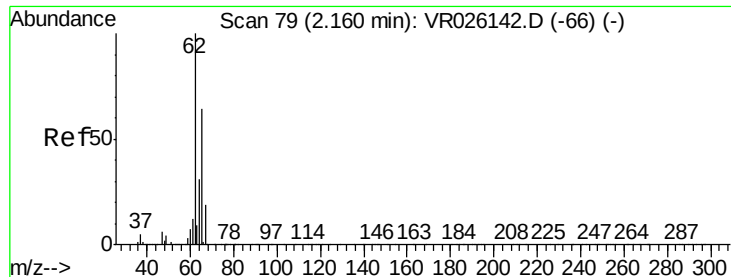
Tgt Ion: 50 Resp: 16150

Ion Ratio Lower Upper

50 100

52 37.4 22.0 40.8





#5

Vinyl chloride

Concen: 0.287 ug/L

RT: 2.16 min Scan# 79

Delta R.T. -0.00 min

Lab File: VR026146.D

Acq: 19 Oct 2018 12:58

Instrument :

MSVOA_R

ClientSampled :

MDL

Tot Ion: 62 Resp: 17016

Ion Ratio Lower Upper

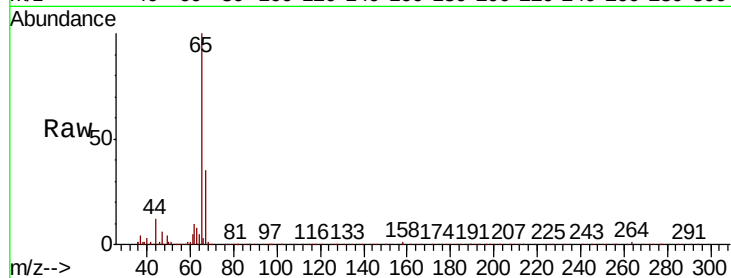
62 100

64 52.0 23.9 44.3#

Manual Integrations
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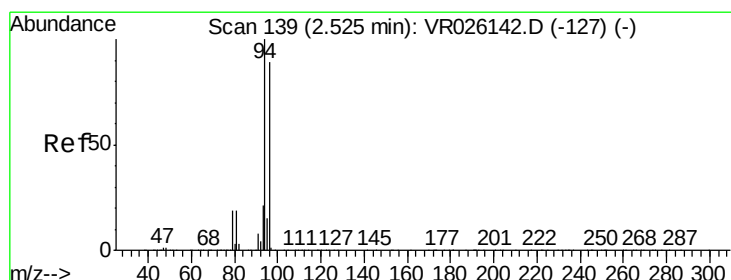
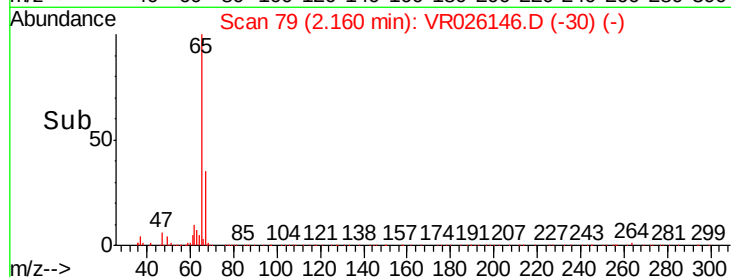
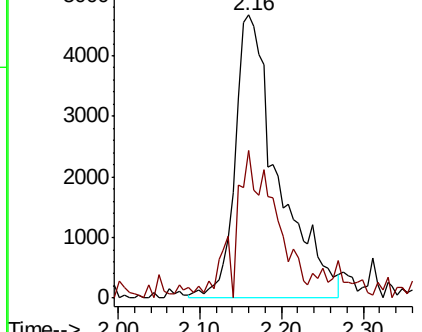
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Abundance Ion 62.00 (61.70 to 62.70): VR0

Ion 64.10 (63.80 to 64.80): VR0



#6

Bromomethane

Concen: 0.313 ug/L

RT: 2.53 min Scan# 140

Delta R.T. 0.01 min

Lab File: VR026146.D

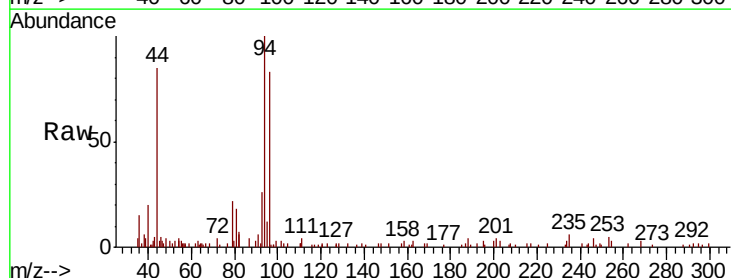
Acq: 19 Oct 2018 12:58

Tgt Ion: 94 Resp: 12245

Ion Ratio Lower Upper

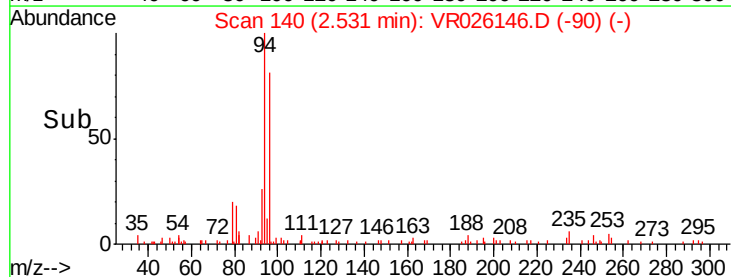
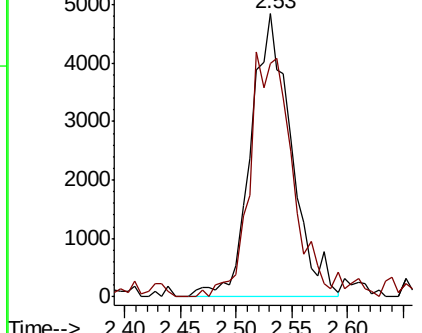
94 100

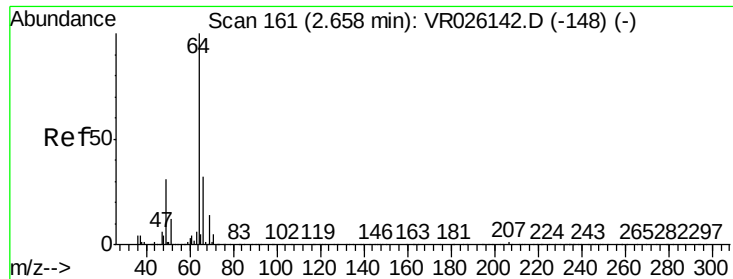
96 84.0 62.5 116.1



Abundance Ion 94.00 (93.70 to 94.70): VR0

Ion 96.00 (95.70 to 96.70): VR0





#8

Chloroethane

Concen: 0.344 ug/L m

RT: 2.66 min Scan# 162

Delta R.T. 0.01 min

Lab File: VR026146.D

Acq: 19 Oct 2018 12:58

Instrument :

MSVOA_R

ClientSampleId :

MDL

Tot Ion: 64 Resp: 12638

Ion Ratio Lower Upper

64 100

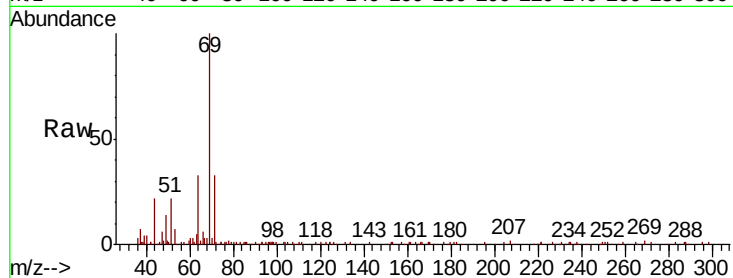
66 19.6 22.0 40.8#

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VR0

Ion 66.05 (65.75 to 66.75): VR0

2.66

6000

5000

4000

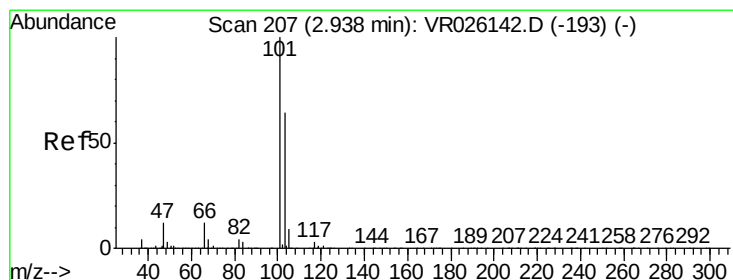
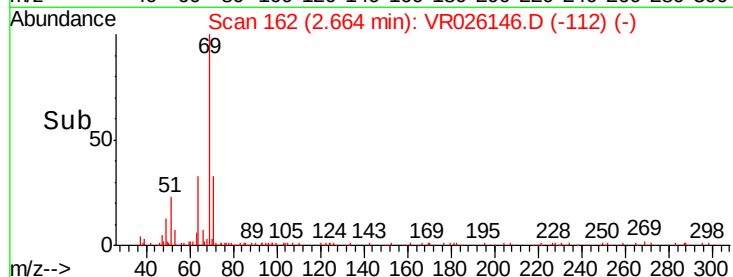
3000

2000

1000

0

Time-->



#9

Trichlorofluoromethane

Concen: 0.279 ug/L m

RT: 2.93 min Scan# 206

Delta R.T. -0.01 min

Lab File: VR026146.D

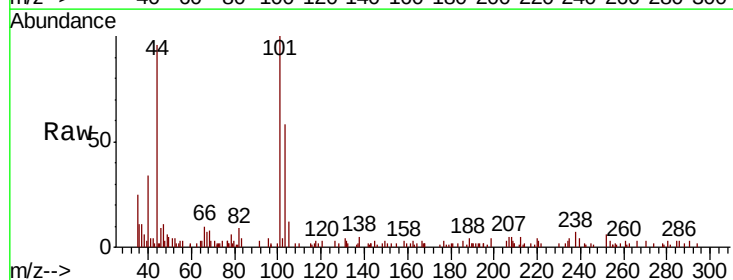
Acq: 19 Oct 2018 12:58

Tgt Ion: 101 Resp: 23857

Ion Ratio Lower Upper

101 100

103 19.5 26.0 39.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

5000

4000

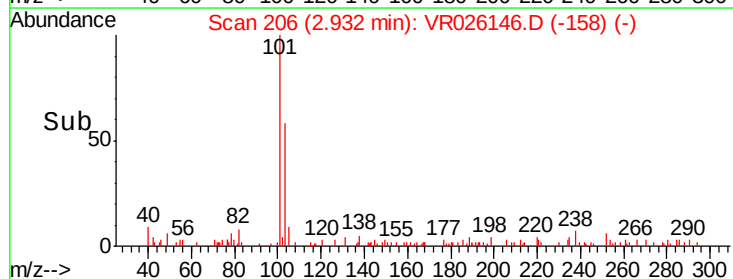
3000

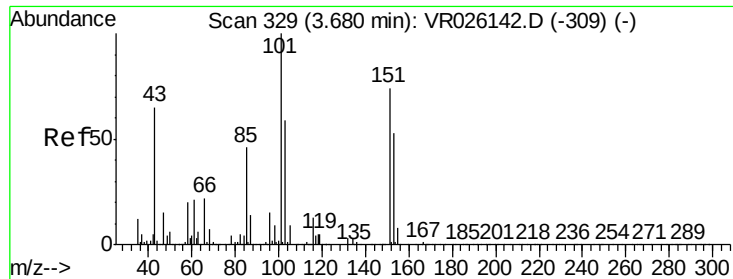
2000

1000

0

Time-->





#10

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

Concen: 0.359 ug/L m

RT: 3.69 min Scan# 330

Delta R.T. 0.01 min

Lab File: VR026146.D

Acq: 19 Oct 2018 12:58

Instrument :

MSVOA_R

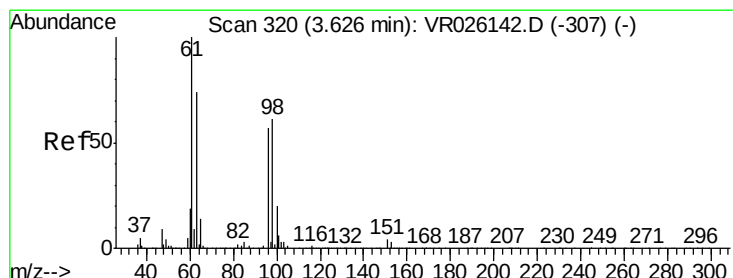
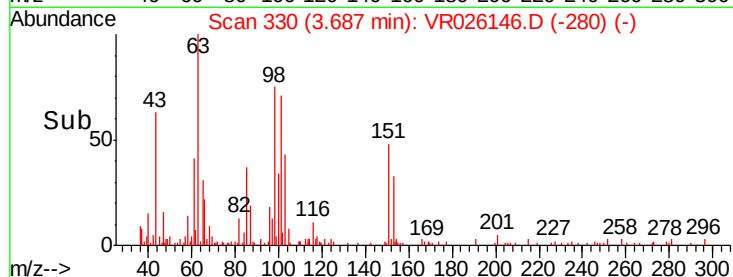
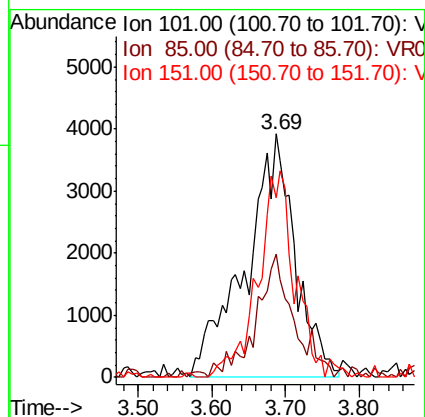
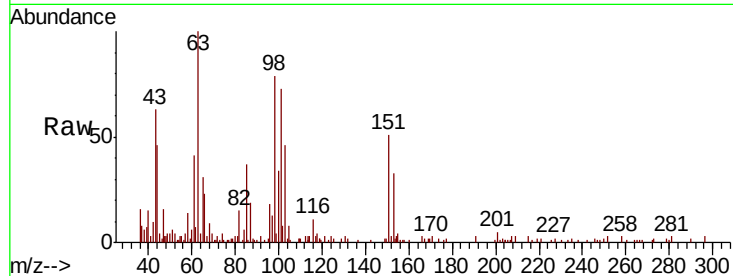
ClientSampled :

MDL

Tot Ion:	101	Resp:	18324
Ion Ratio	Lower	Upper	
101	100		
85	34.8	37.8	56.8#
151	62.6	63.2	94.8#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 0.332 ug/L

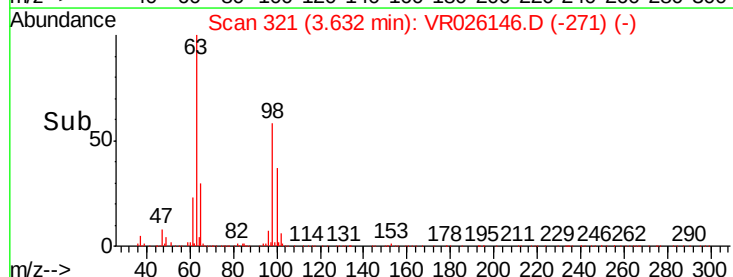
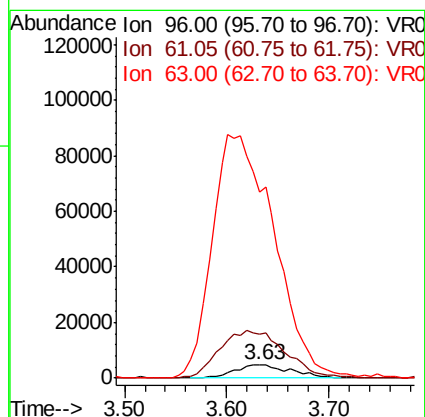
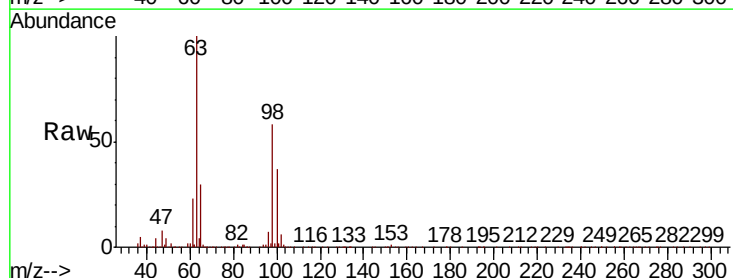
RT: 3.63 min Scan# 321

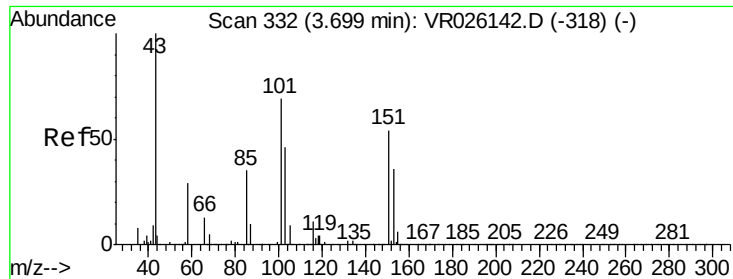
Delta R.T. 0.01 min

Lab File: VR026146.D

Acq: 19 Oct 2018 12:58

Tgt Ion:	96	Resp:	18000
Ion Ratio	Lower	Upper	
96	100		
61	323.9	126.7	235.3#
63	1386.3	125.0	232.2#





#13

Acetone

Concen: 3.198 ug/L

RT: 3.70 min Scan# 333

Delta R.T. 0.01 min

Lab File: VR026146.D

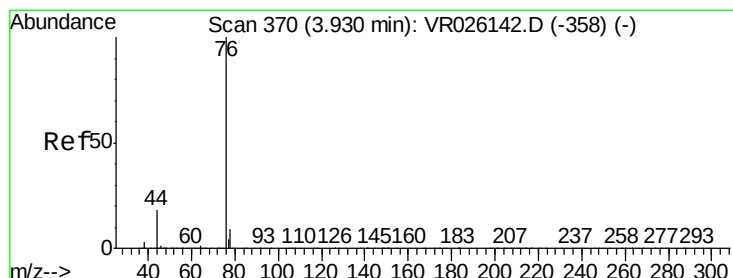
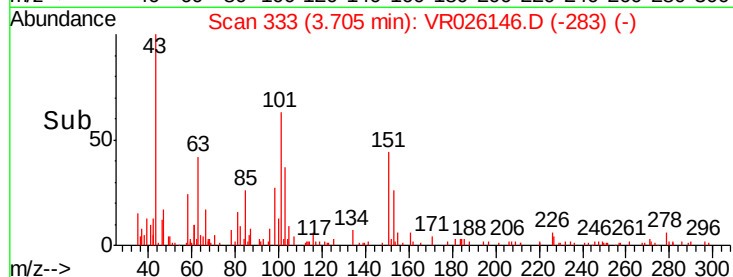
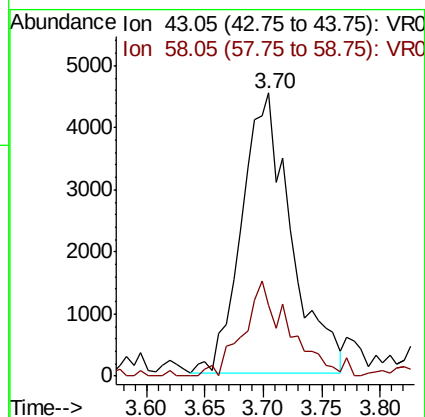
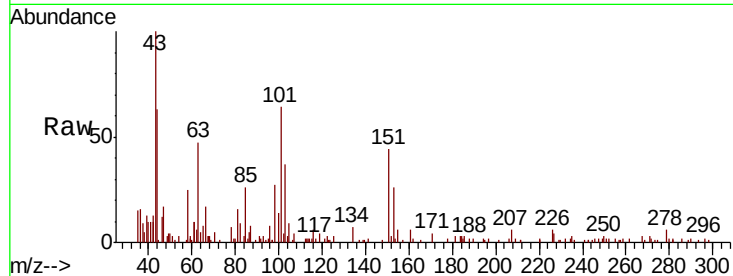
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Tot Ion	43	58	Ratio	100	31.0	Resp:	13261	Lower	0.0	Upper	55.4
Ion	43	58	Ratio	100	31.0	Resp:	13261	Lower	0.0	Upper	55.4

Manual Integrations
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#14

Carbon disulfide

Concen: 0.219 ug/L

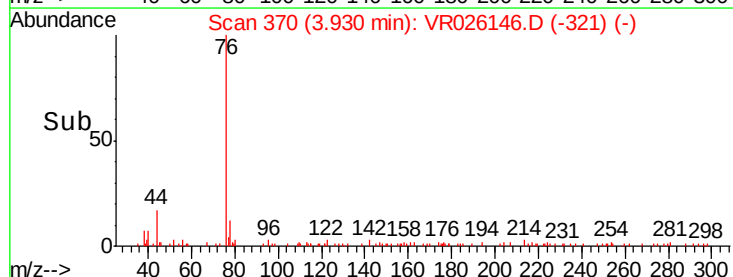
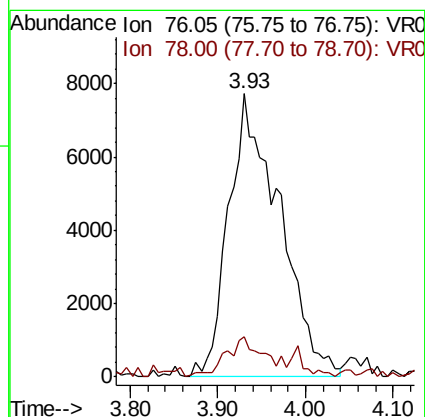
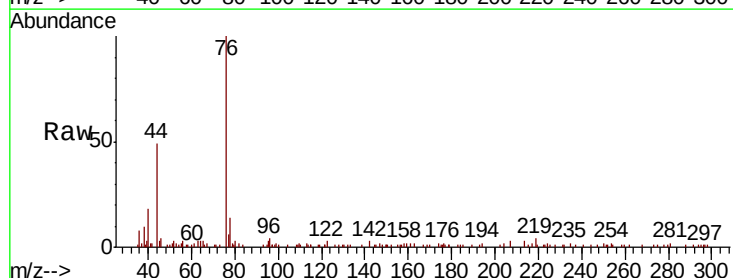
RT: 3.93 min Scan# 370

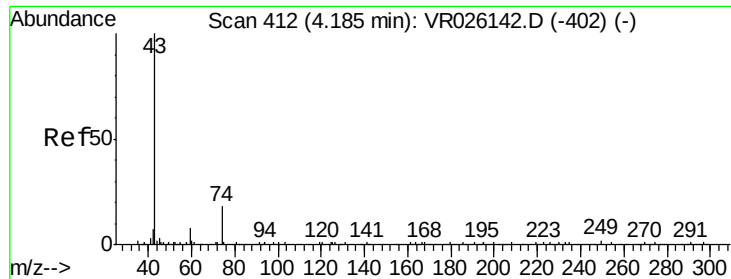
Delta R.T. -0.00 min

Lab File: VR026146.D

Acq: 19 Oct 2018 12:58

Tgt Ion	76	78	Ratio	100	14.2	Resp:	31085	Lower	7.6	Upper	11.4#
Ion	76	78	Ratio	100	14.2	Resp:	31085	Lower	7.6	Upper	11.4#





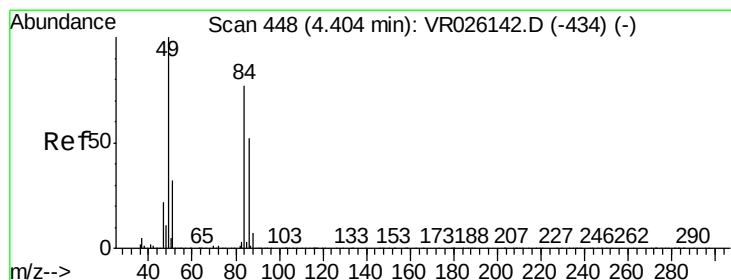
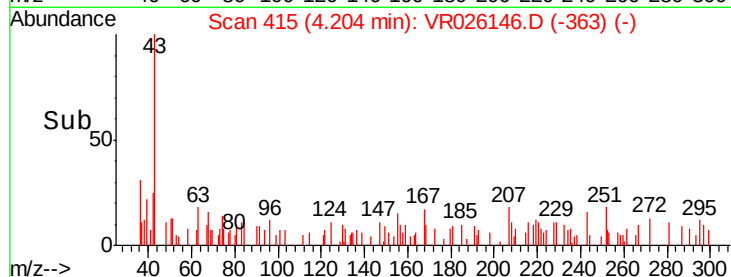
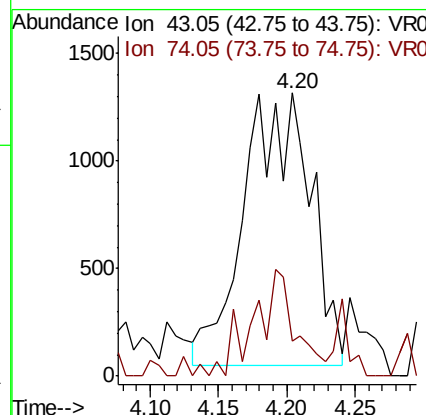
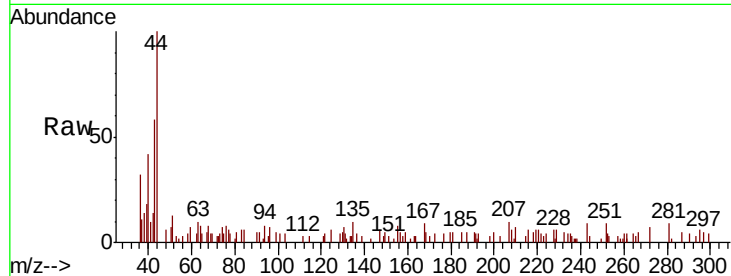
#15
Methyl Acetate
Concen: 0.392 ug/L m
RT: 4.20 min Scan# 415
Delta R.T. 0.02 min
Lab File: VR026146.D
Acq: 19 Oct 2018 12:58

Instrument :
MSVOA_R
ClientSampled :
MDL

Tot Ion: 43 Resp: 4246
Ion Ratio Lower Upper
43 100
74 24.3 19.8 29.8

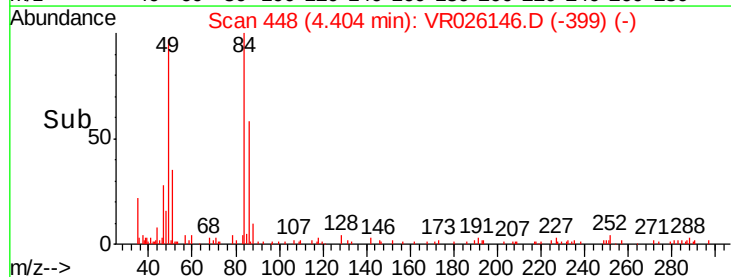
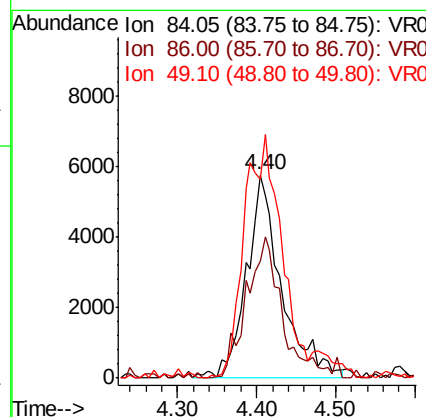
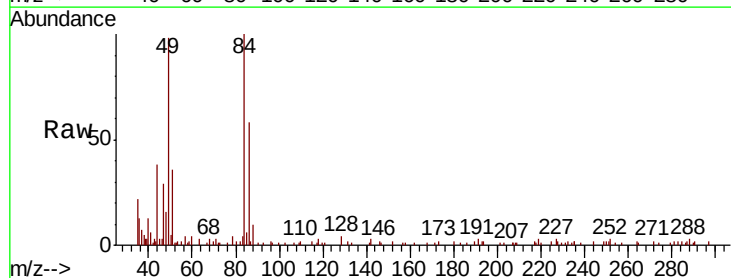
Manual Integrations
APPROVED

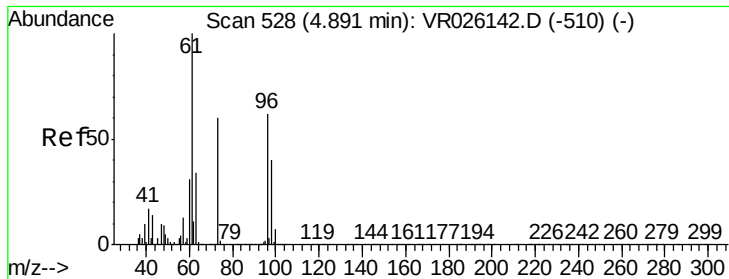
MMDadoda
10/24/2018 12:17:32 PM



#16
Methylene chloride
Concen: 0.361 ug/L
RT: 4.40 min Scan# 448
Delta R.T. -0.00 min
Lab File: VR026146.D
Acq: 19 Oct 2018 12:58

Tgt Ion: 84 Resp: 17764
Ion Ratio Lower Upper
84 100
86 57.6 43.0 79.8
49 98.0 89.1 165.5





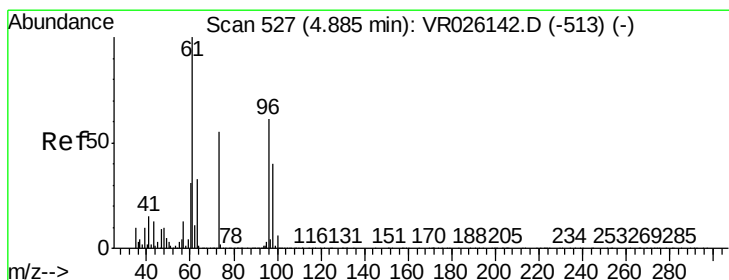
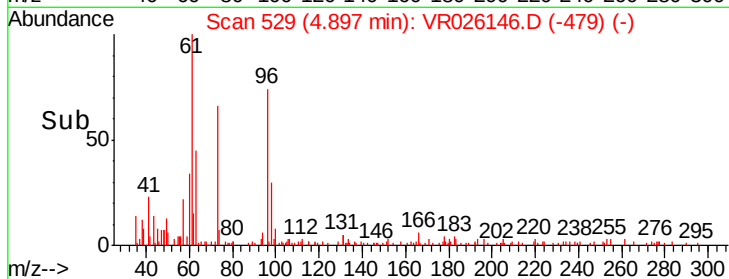
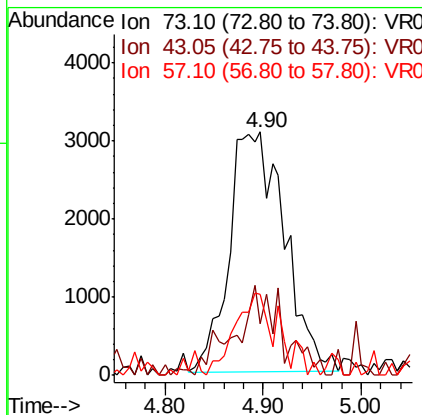
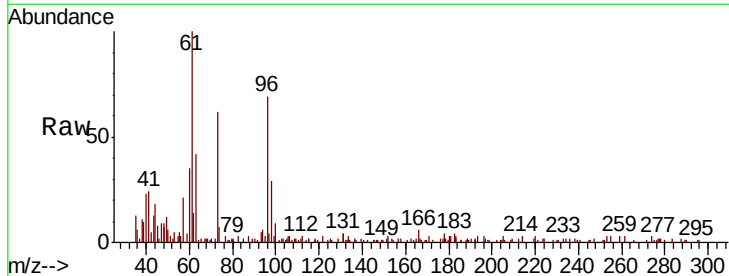
#17
Methyl tert-butyl Ether
Concen: 0.245 ug/L
RT: 4.90 min Scan# 529
Delta R.T. 0.01 min
Lab File: VR026146.D
Acq: 19 Oct 2018 12:58

Instrument :
MSVOA_R
ClientSampled :
MDL

Tot Ion	Ratio	Lower	Upper
73	100		
43	20.4	20.1	30.1
57	20.0	19.0	28.4

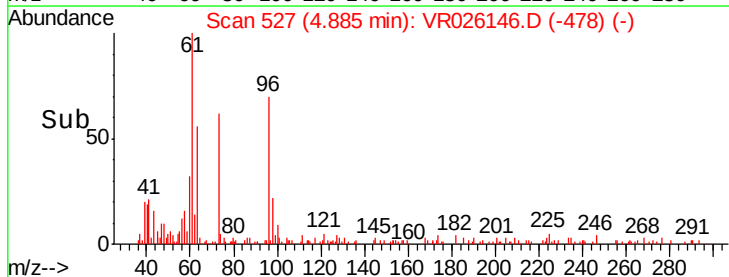
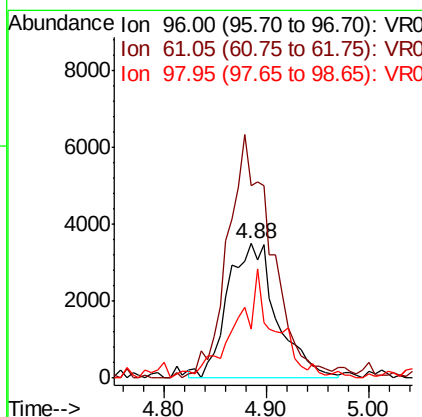
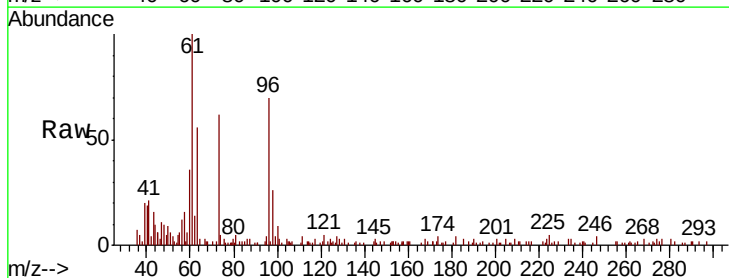
Manual Integrations
APPROVED

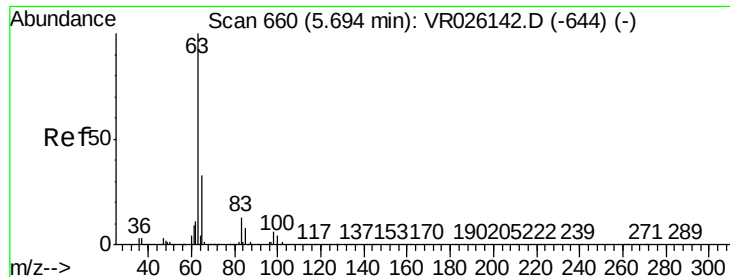
MMDadoda
10/24/2018 12:17:32 PM



#18
trans-1,2-Dichloroethene
Concen: 0.286 ug/L
RT: 4.88 min Scan# 527
Delta R.T. -0.00 min
Lab File: VR026146.D
Acq: 19 Oct 2018 12:58

Tgt Ion	Ratio	Lower	Upper
96	100		
61	143.0	111.4	206.8
98	36.7	41.4	77.0





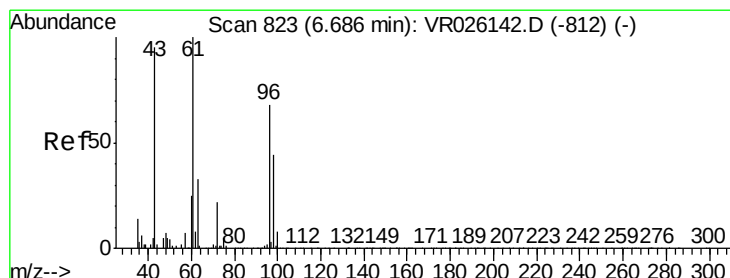
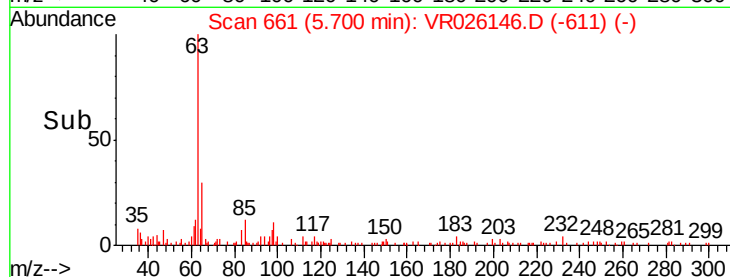
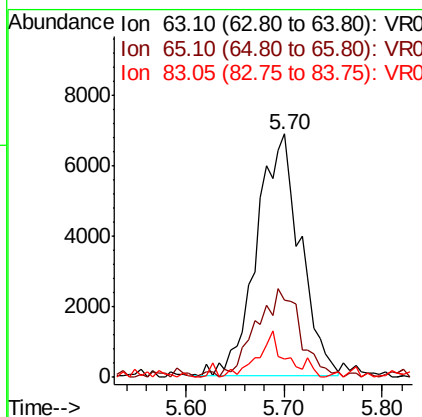
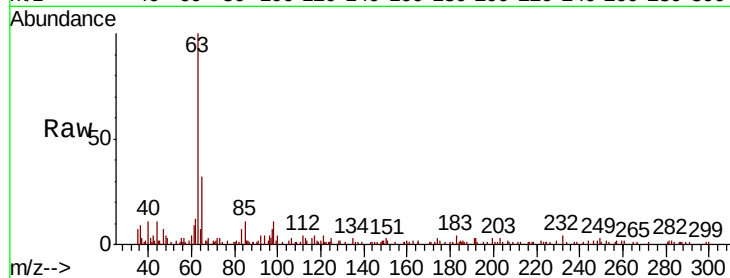
#19
 1,1-Dichloroethane
 Concen: 0.274 ug/L
 RT: 5.70 min Scan# 661
 Delta R.T. 0.01 min
 Lab File: VR026146.D
 Acq: 19 Oct 2018 12:58

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.6	21.2	39.4
83	7.3	9.2	17.2

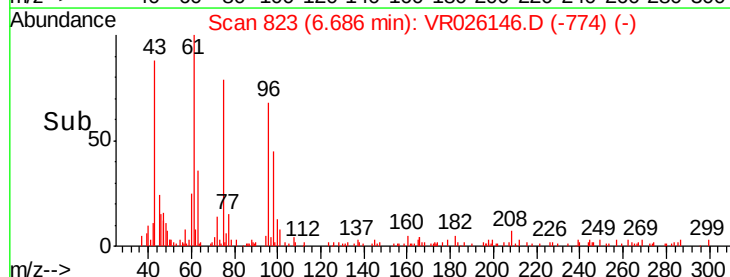
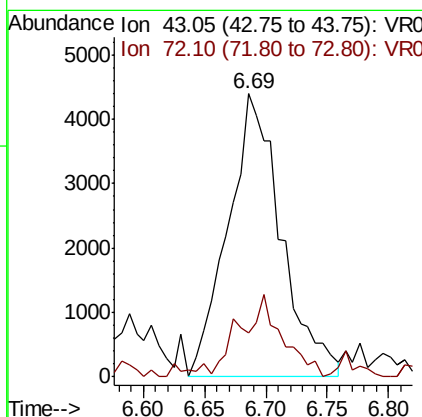
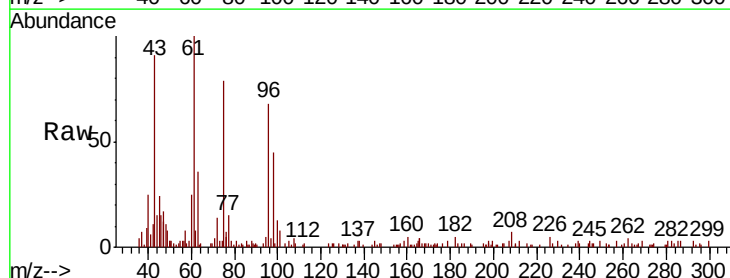
Manual Integrations
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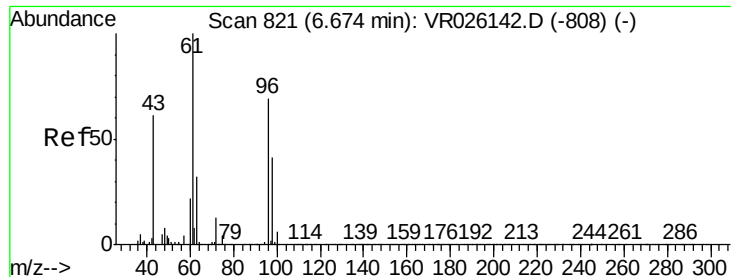
MMDadoda
 10/24/2018 12:17:32 PM



#21
 2-Butanone
 Concen: 2.775 ug/L
 RT: 6.69 min Scan# 823
 Delta R.T. -0.00 min
 Lab File: VR026146.D
 Acq: 19 Oct 2018 12:58

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.6	12.3	36.8





#22

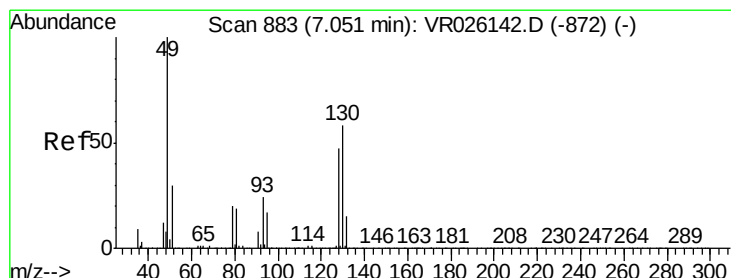
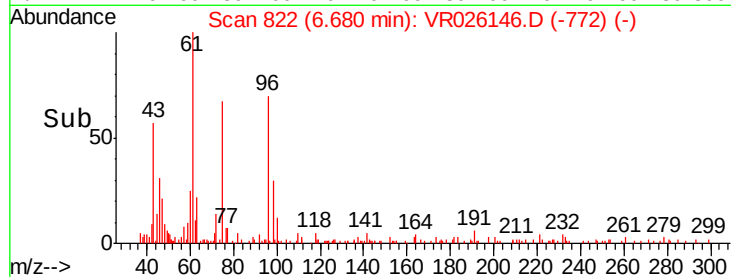
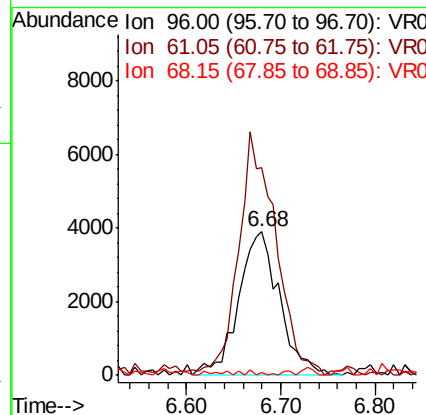
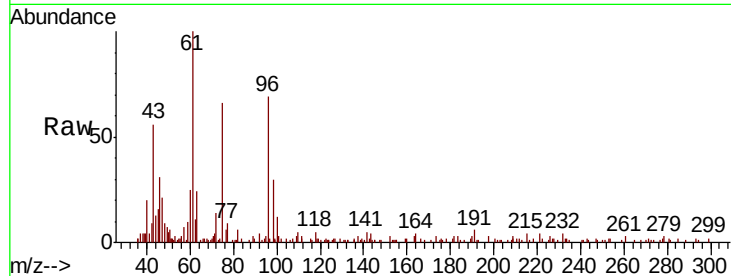
cis-1,2-Dichloroethene
Concen: 0.304 ug/L
RT: 6.68 min Scan# 822
Delta R.T. 0.01 min
Lab File: VR026146.D
Acq: 19 Oct 2018 12:58

Instrument :
MSVOA_R
ClientSampled :
MDL

Tot Ion	Ratio	Lower	Upper
96	100		
61	144.7	101.8	189.0
68	1.7	0.1	0.3

Manual Integrations
APPROVED

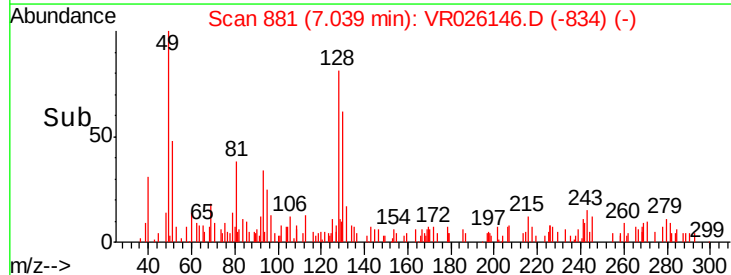
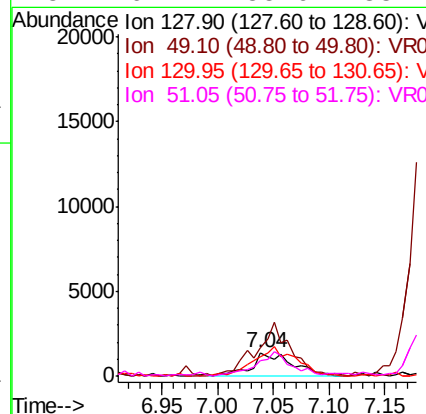
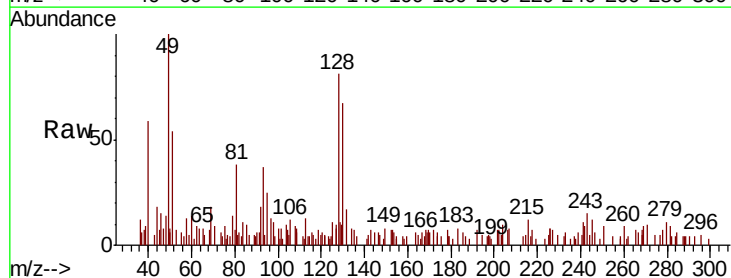
MMDadoda
10/24/2018 12:17:32 PM

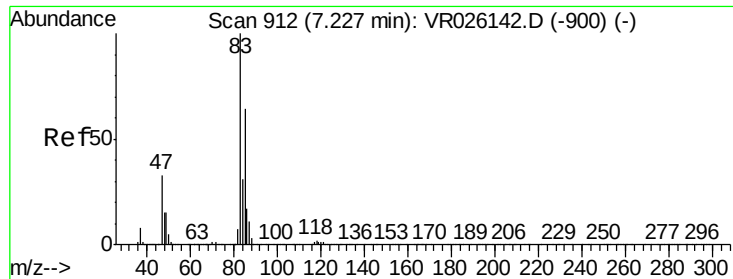


#23

Bromochloromethane
Concen: 0.327 ug/L
RT: 7.04 min Scan# 881
Delta R.T. -0.01 min
Lab File: VR026146.D
Acq: 19 Oct 2018 12:58

Tgt Ion	Ratio	Lower	Upper
128	100		
49	131.6	146.2	271.4
130	82.2	92.5	171.7
51	67.2	55.6	83.4





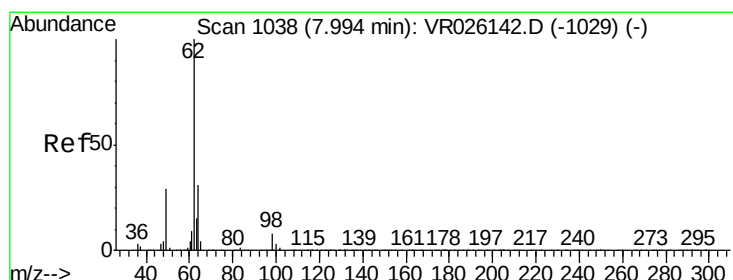
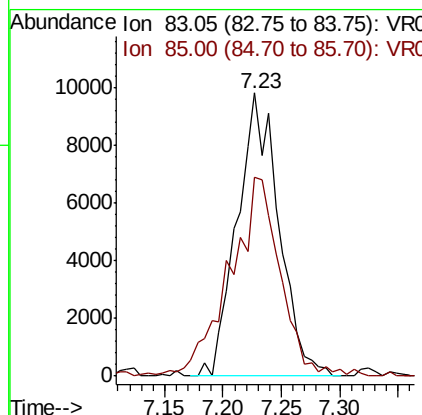
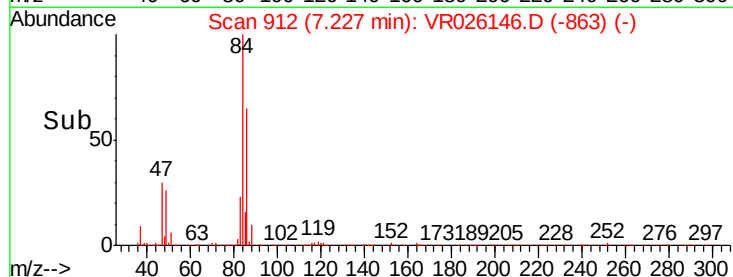
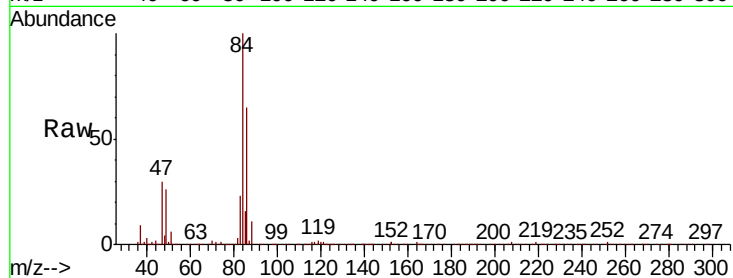
#25
Chloroform
Concen: 0.324 ug/L
RT: 7.23 min Scan# 912
Delta R.T. -0.00 min
Lab File: VR026146.D
Acq: 19 Oct 2018 12:58

Instrument :
MSVOA_R
ClientSampleId :
MDL

Tot Ion: 83 Resp: 24375
Ion Ratio Lower Upper
83 100
85 70.2 43.5 80.7

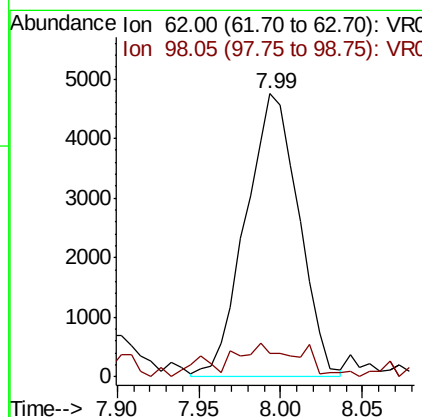
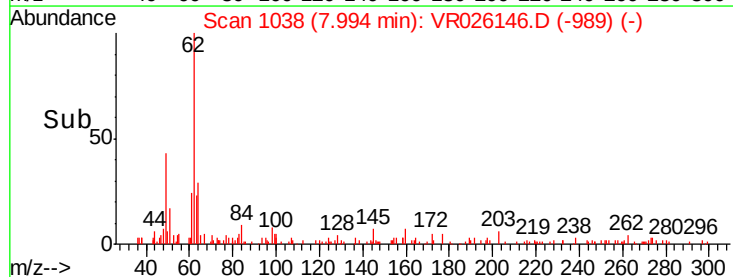
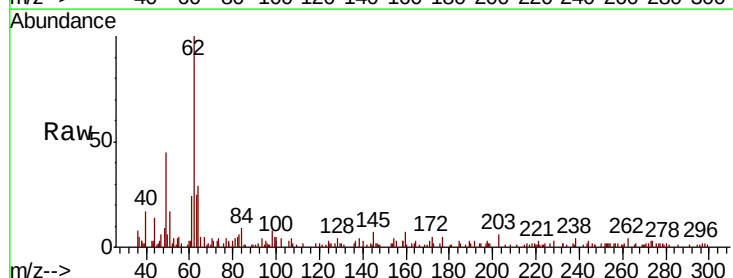
Manual Integrations
APPROVED

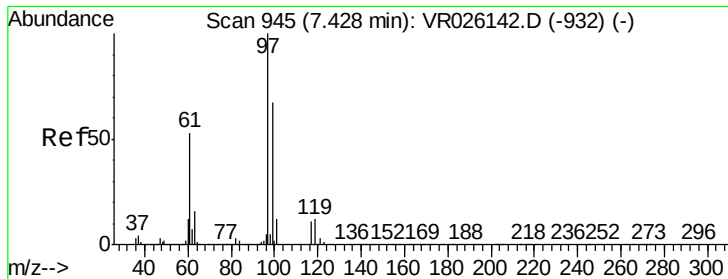
MMDadoda
10/24/2018 12:17:32 PM



#27
1,2-Dichloroethane
Concen: 0.292 ug/L
RT: 7.99 min Scan# 1038
Delta R.T. -0.00 min
Lab File: VR026146.D
Acq: 19 Oct 2018 12:58

Tgt Ion: 62 Resp: 10762
Ion Ratio Lower Upper
62 100
98 8.4 5.6 8.4#





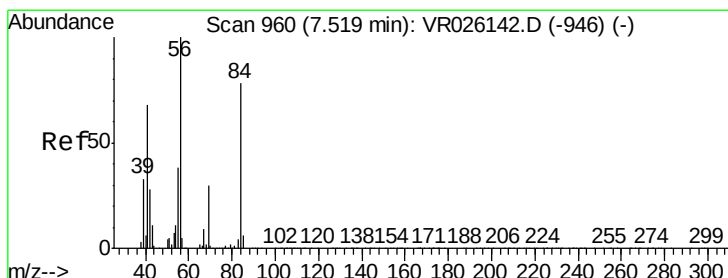
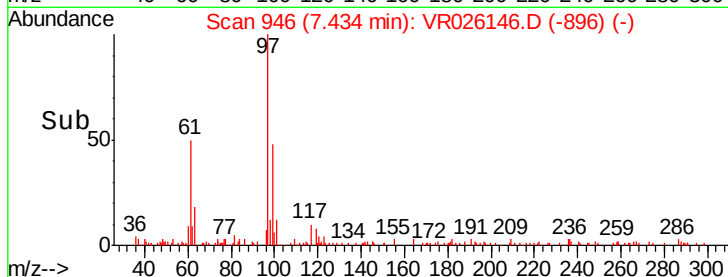
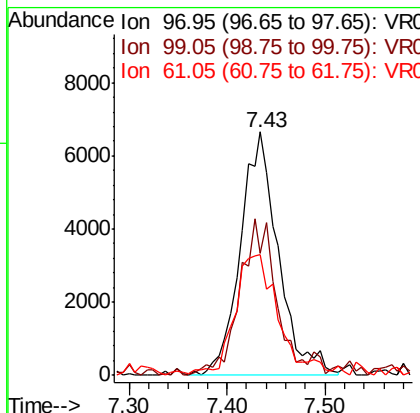
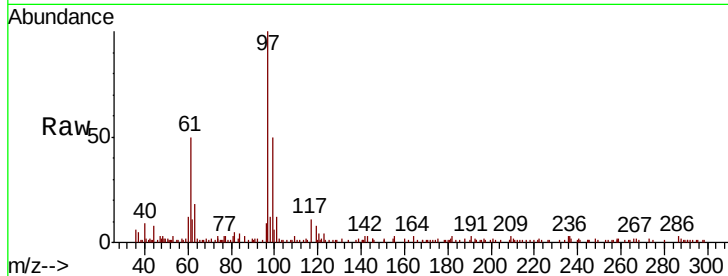
#29
 1,1,1-Trichloroethane
 Concen: 0.273 ug/L
 RT: 7.43 min Scan# 946
 Delta R.T. 0.01 min
 Lab File: VR026146.D
 Acq: 19 Oct 2018 12:58

Instrument :
 MSVOA_R
 ClientSampled :
 MDL

Tot Ion:	97	Resp:	17863
Ion Ratio	Lower	Upper	
97	100		
99	61.2	51.1	76.7
61	52.5	42.1	63.1

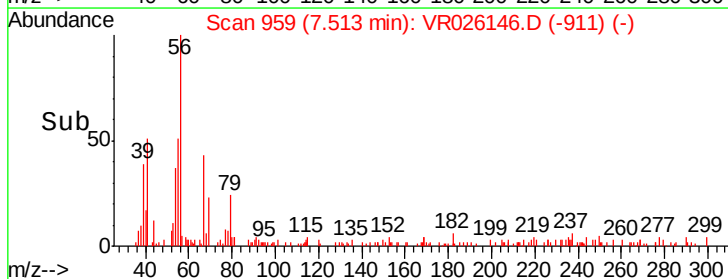
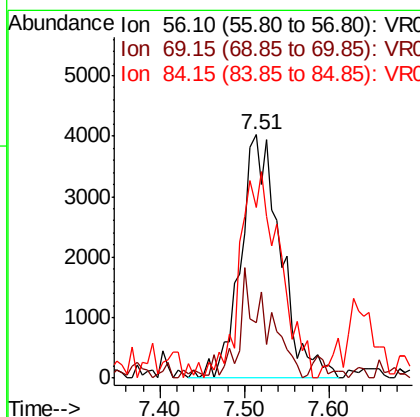
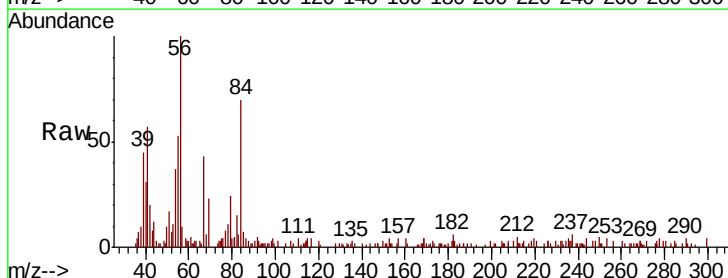
Manual Integrations
 APPROVED

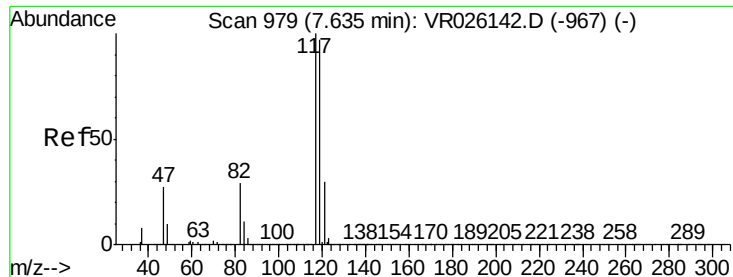
MMDadoda
 10/24/2018 12:17:32 PM



#30
 Cyclohexane
 Concen: 0.196 ug/L
 RT: 7.51 min Scan# 959
 Delta R.T. -0.01 min
 Lab File: VR026146.D
 Acq: 19 Oct 2018 12:58

Tgt Ion:	56	Resp:	12836
Ion Ratio	Lower	Upper	
56	100		
69	13.4	23.8	35.8#
84	85.6	62.2	93.4





#31

Carbon tetrachloride

Concen: 0.257 ug/L

RT: 7.64 min Scan# 980

Delta R.T. 0.01 min

Lab File: VR026146.D

Acq: 19 Oct 2018 12:58

Instrument :

MSVOA_R

ClientSampleId :

MDL

Tot Ion:117 Resp: 15274

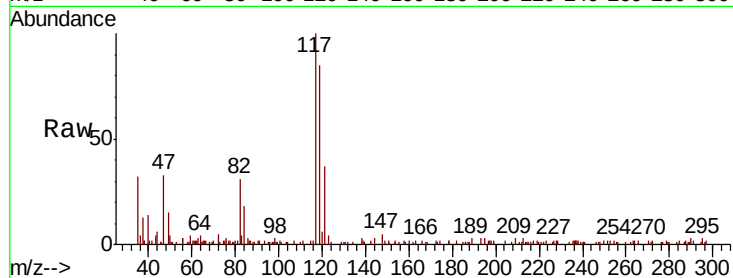
Ion Ratio Lower Upper

117 100

119 91.3 74.2 111.2

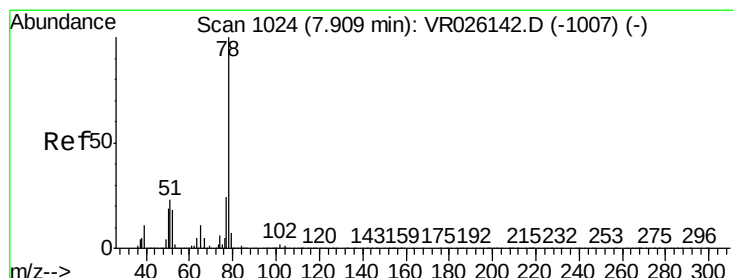
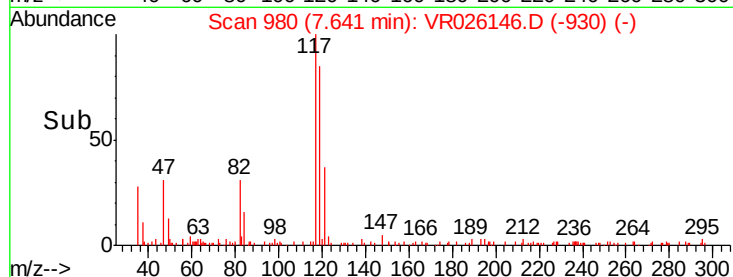
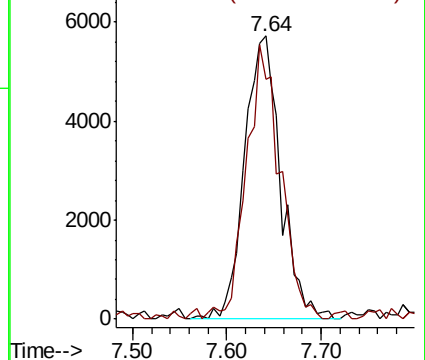
Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:17:32 PM



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.273 ug/L m

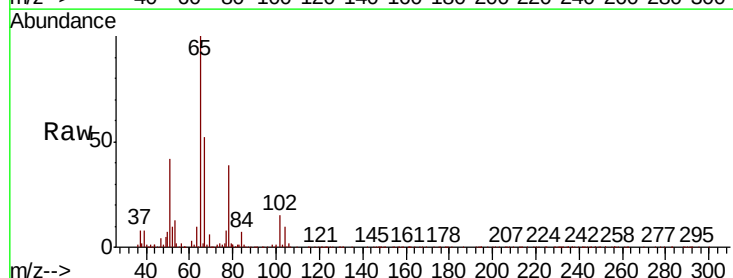
RT: 7.90 min Scan# 1023

Delta R.T. -0.01 min

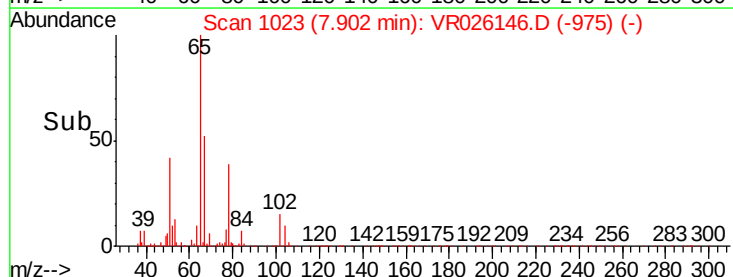
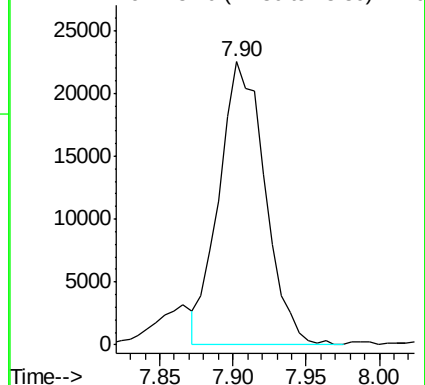
Lab File: VR026146.D

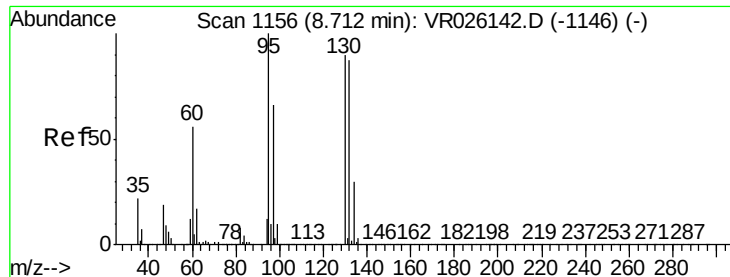
Acq: 19 Oct 2018 12:58

Tgt Ion: 78 Resp: 48914



Abundance Ion 78.10 (77.80 to 78.80): VR0





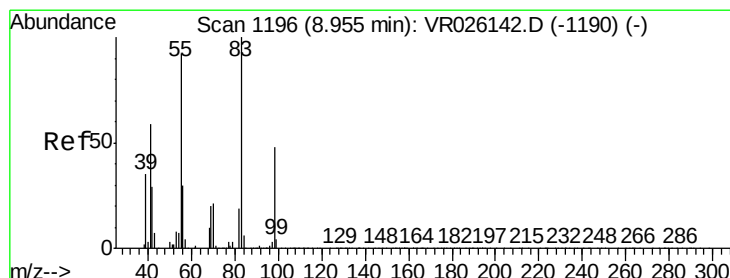
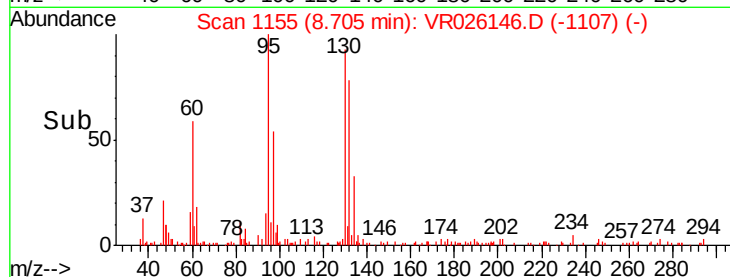
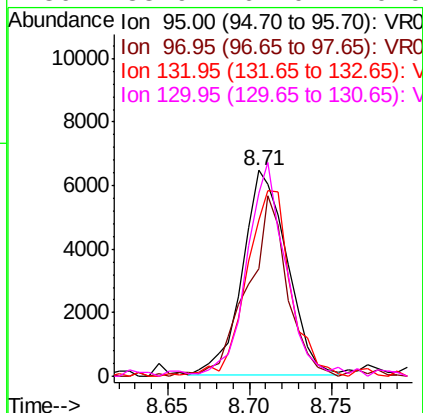
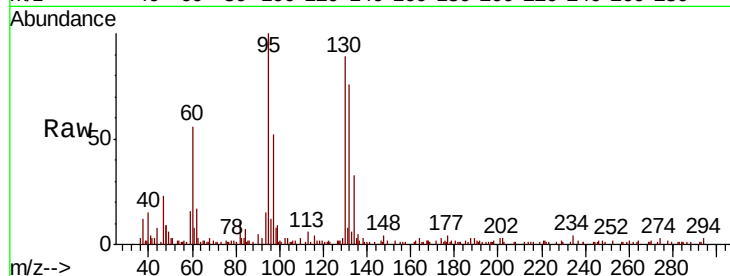
#34
 Trichloroethene
 Concen: 0.266 ug/L
 RT: 8.71 min Scan# 1155
 Delta R.T. -0.01 min
 Lab File: VR026146.D
 Acq: 19 Oct 2018 12:58

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL

Tot Ion	95	Resp	12223
Ion	Ratio	Lower	Upper
95	100		
97	52.2	45.7	84.9
132	76.1	58.3	108.3
130	88.9	64.0	119.0

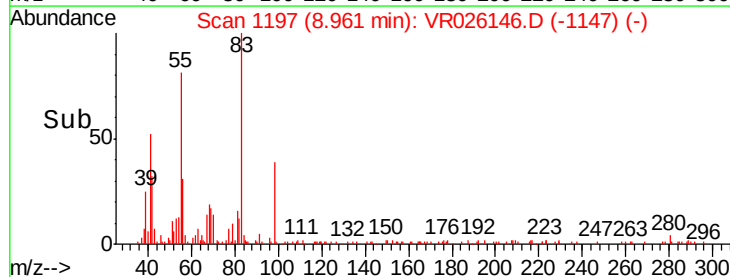
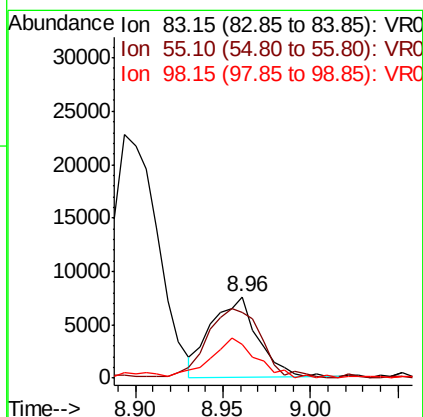
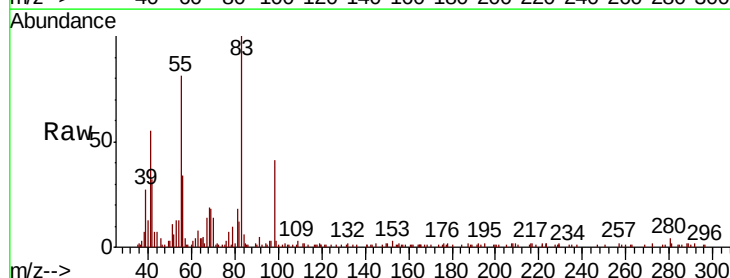
Manual Integrations
 APPROVED

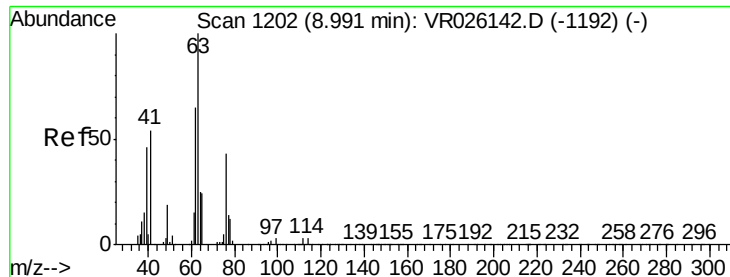
MMDadoda
 10/24/2018 12:17:32 PM



#35
 Methylcyclohexane
 Concen: 0.202 ug/L
 RT: 8.96 min Scan# 1197
 Delta R.T. 0.01 min
 Lab File: VR026146.D
 Acq: 19 Oct 2018 12:58

Tgt Ion	83	Resp	13812
Ion	Ratio	Lower	Upper
83	100		
55	102.8	66.8	100.2#
98	49.6	35.2	52.8





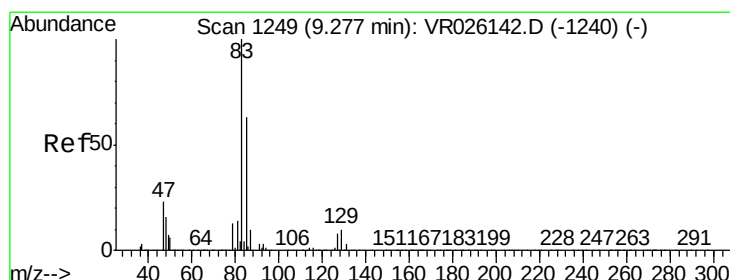
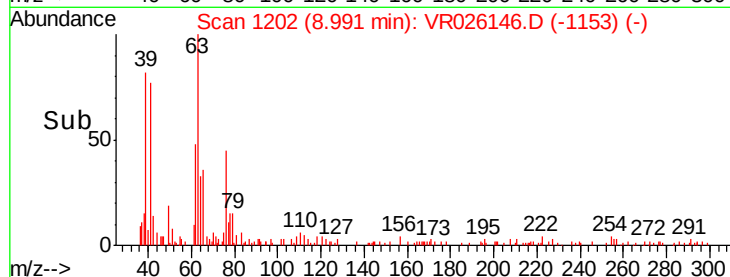
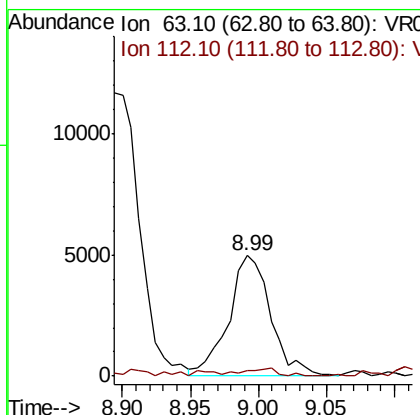
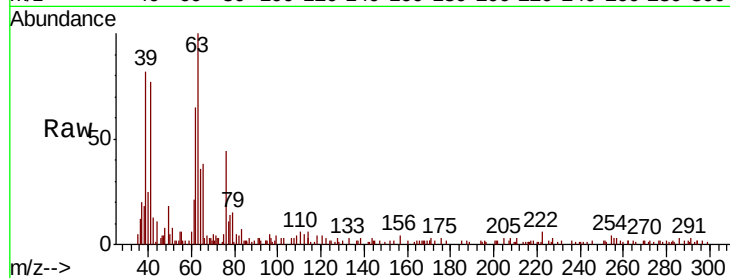
#37
 1,2-Dichloropropane
 Concen: 0.284 ug/L
 RT: 8.99 min Scan# 1202
 Delta R.T. -0.00 min
 Lab File: VR026146.D
 Acq: 19 Oct 2018 12:58

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL

Tot Ion: 63 Resp: 10749
 Ion Ratio Lower Upper
 63 100
 112 5.2 2.7 4.1#

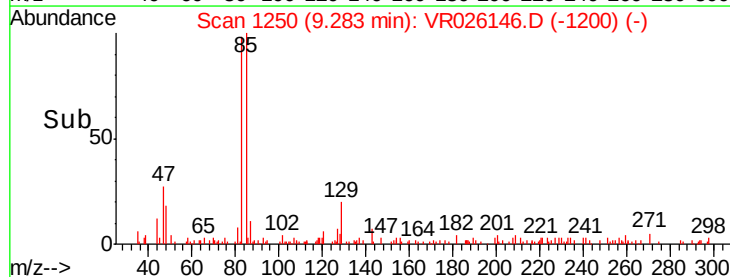
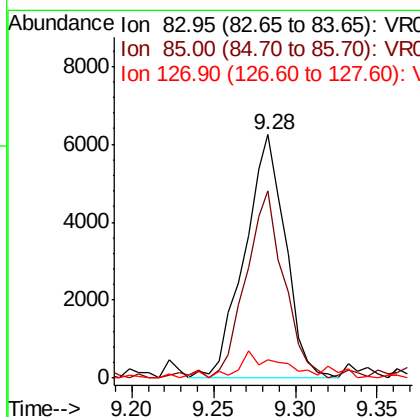
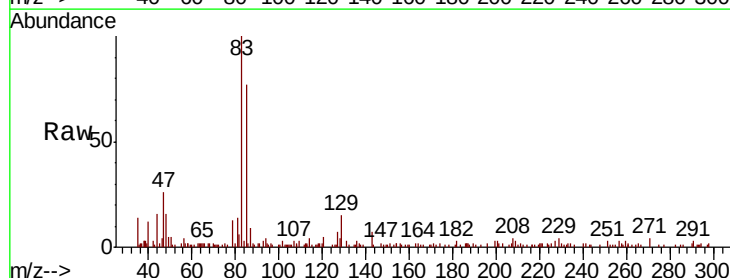
Manual Integrations
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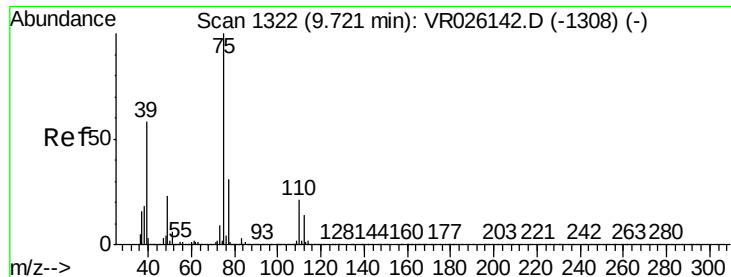
MMDadoda
 10/24/2018 12:17:32 PM



#38
 Bromodichloromethane
 Concen: 0.266 ug/L
 RT: 9.28 min Scan# 1250
 Delta R.T. 0.01 min
 Lab File: VR026146.D
 Acq: 19 Oct 2018 12:58

Tgt Ion: 83 Resp: 10846
 Ion Ratio Lower Upper
 83 100
 85 76.9 43.5 80.7
 127 7.4 7.0 10.6





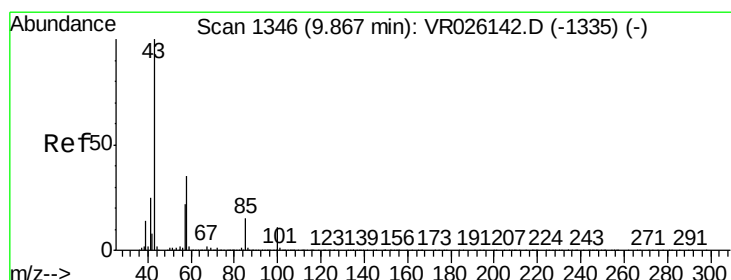
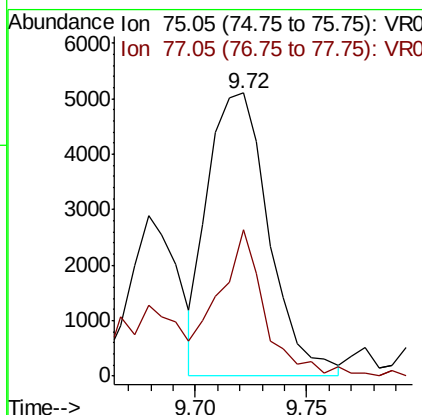
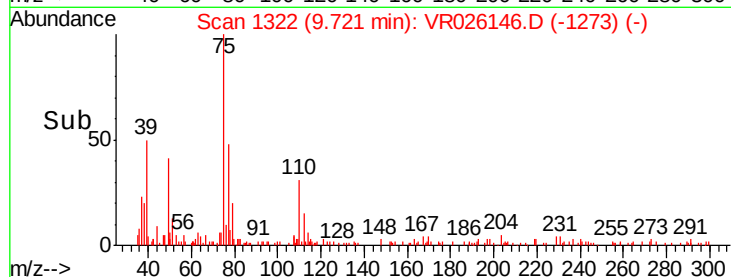
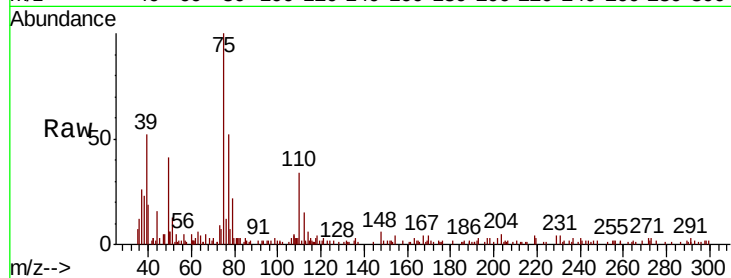
#39
 cis-1,3-Dichloropropene
 Concen: 0.225 ug/L
 RT: 9.72 min Scan# 1322
 Delta R.T. -0.00 min
 Lab File: VR026146.D
 Acq: 19 Oct 2018 12:58

Instrument :
 MSVOA_R
 ClientSampleID :
 MDL

Tot Ion: 75 Resp: 9739
 Ion Ratio Lower Upper
 75 100
 77 51.6 22.7 42.1#

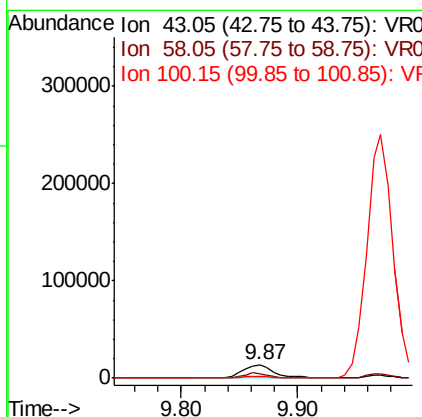
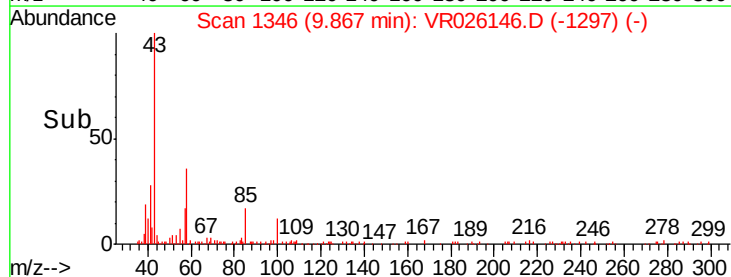
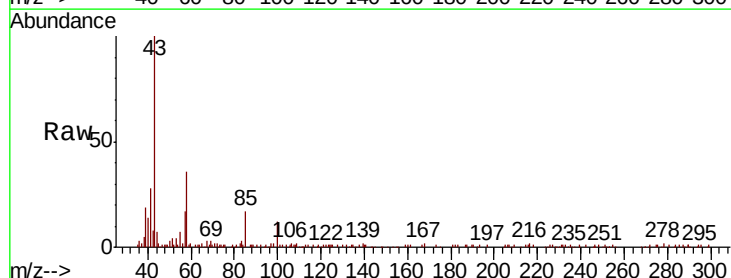
Manual Integrations
 APPROVED

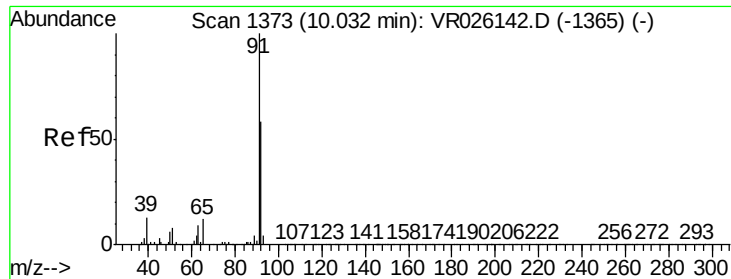
MMDadoda
 10/24/2018 12:17:32 PM



#40
 4-Methyl-2-pentanone
 Concen: 2.202 ug/L
 RT: 9.87 min Scan# 1346
 Delta R.T. -0.00 min
 Lab File: VR026146.D
 Acq: 19 Oct 2018 12:58

Tgt Ion: 43 Resp: 25453
 Ion Ratio Lower Upper
 43 100
 58 34.8 28.1 42.1
 100 0.0 9.3 13.9#





#42

Toluene

Concen: 0.271 ug/L

RT: 10.03 min Scan# 1373

Delta R.T. -0.00 min

Lab File: VR026146.D

Acq: 19 Oct 2018 12:58

Instrument :

MSVOA_R

ClientSampled :

MDL

Tot Ion: 91 Resp: 51269

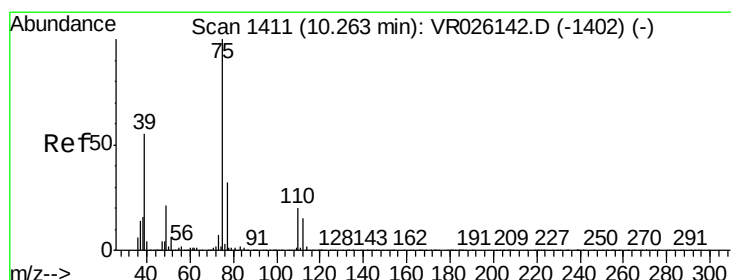
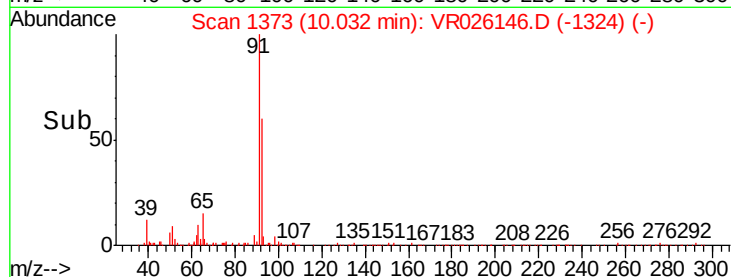
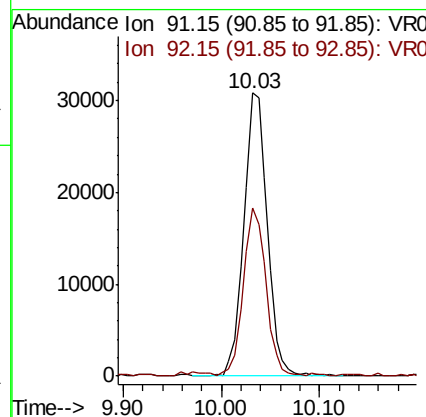
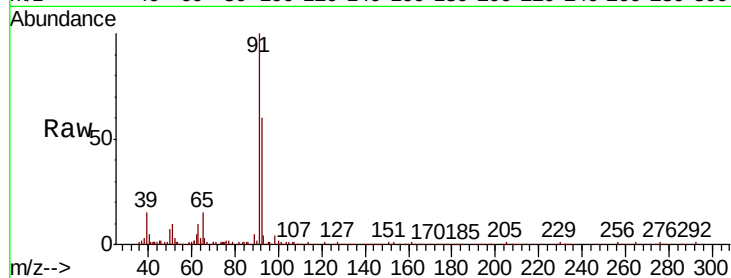
Ion Ratio Lower Upper

91 100

92 59.6 40.8 75.8

Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:17:32 PM



#44

trans-1,3-Dichloropropene

Concen: 0.329 ug/L

RT: 10.26 min Scan# 1411

Delta R.T. -0.00 min

Lab File: VR026146.D

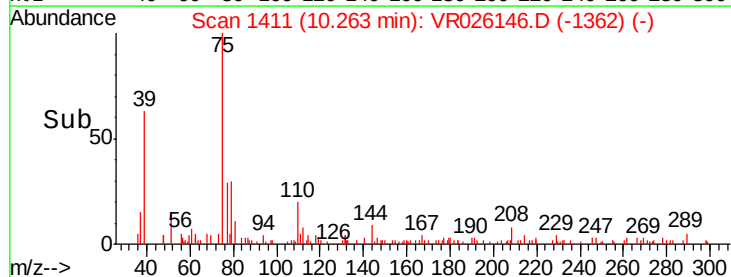
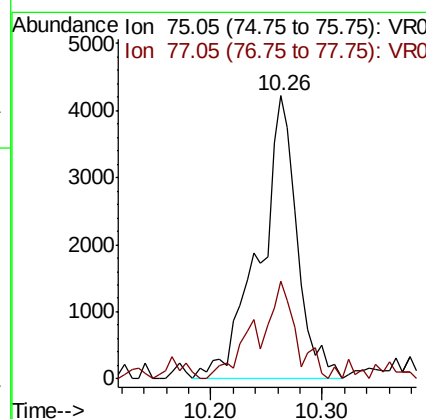
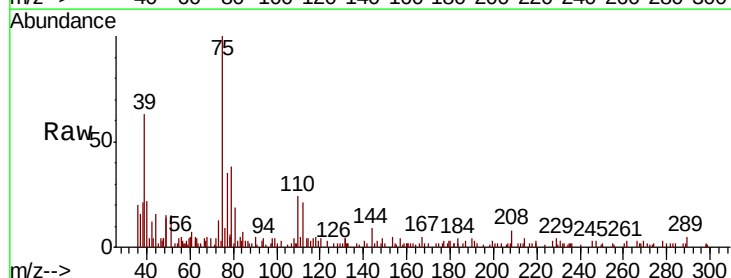
Acq: 19 Oct 2018 12:58

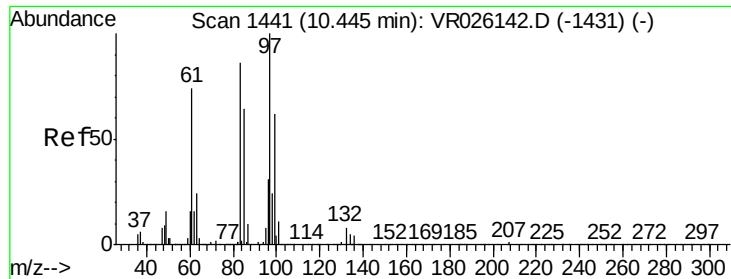
Tgt Ion: 75 Resp: 9947

Ion Ratio Lower Upper

75 100

77 34.6 24.1 44.7





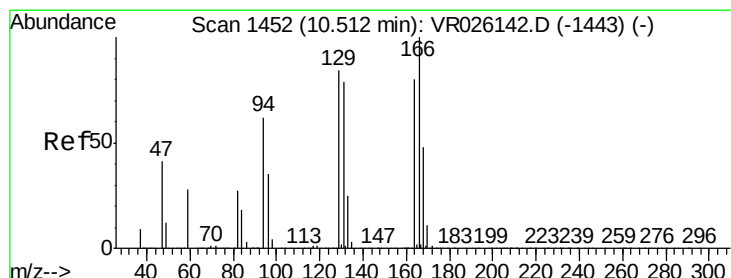
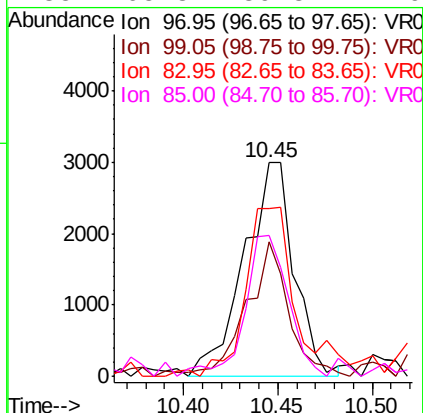
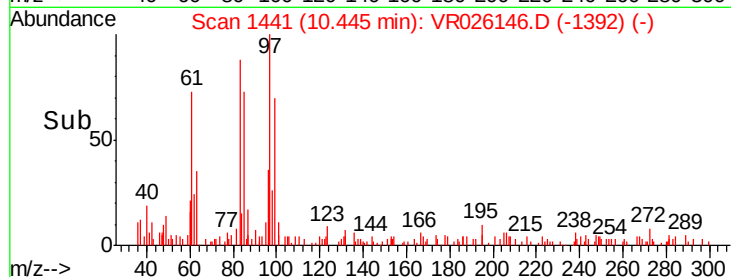
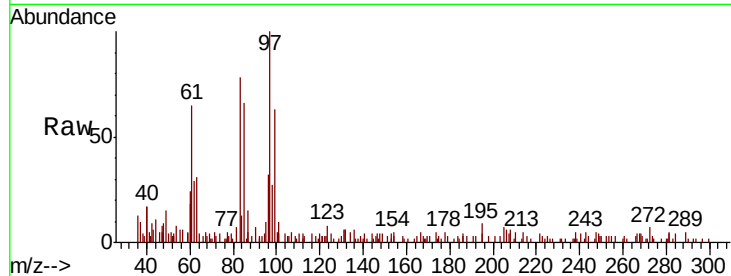
#45
1,1,2-Trichloroethane
Concen: 0.346 ug/L
RT: 10.45 min Scan# 1441
Delta R.T. -0.00 min
Lab File: VR026146.D
Acq: 19 Oct 2018 12:58

Instrument :
MSVOA_R
ClientSampleId :
MDL

Tot Ion:	97	Resp:	5520
Ion	Ratio	Lower	Upper
97	100		
99	62.7	42.8	79.4
83	78.4	61.9	114.9
85	65.8	39.3	72.9

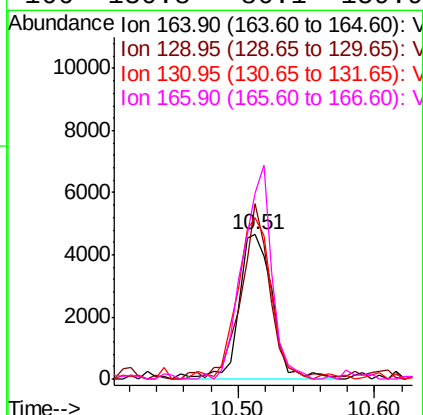
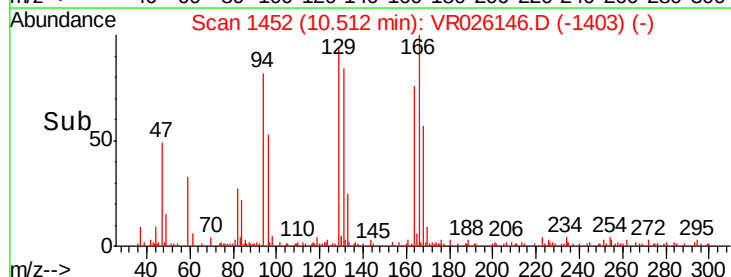
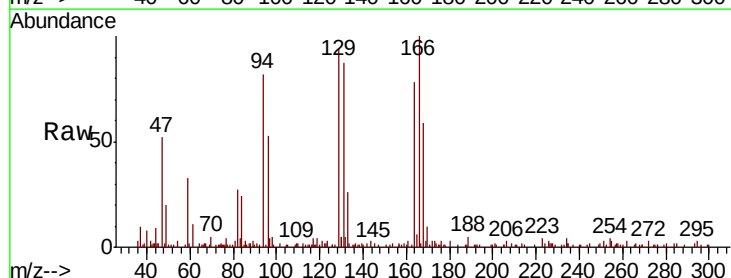
Manual Integrations
APPROVED

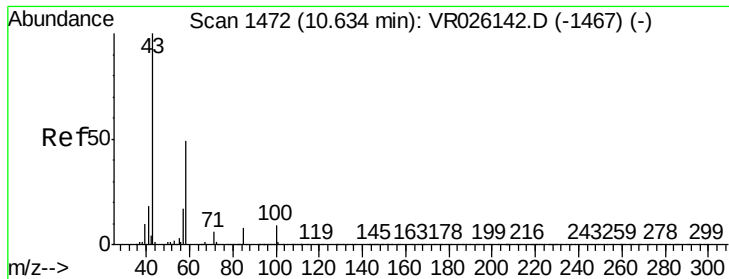
MMDadoda
10/24/2018 12:17:32 PM



#47
Tetrachloroethene
Concen: 0.241 ug/L
RT: 10.51 min Scan# 1452
Delta R.T. -0.00 min
Lab File: VR026146.D
Acq: 19 Oct 2018 12:58

Tgt Ion:	164	Resp:	7912
Ion	Ratio	Lower	Upper
164	100		
129	121.2	70.3	130.5
131	111.7	67.3	125.1
166	130.8	86.1	159.9





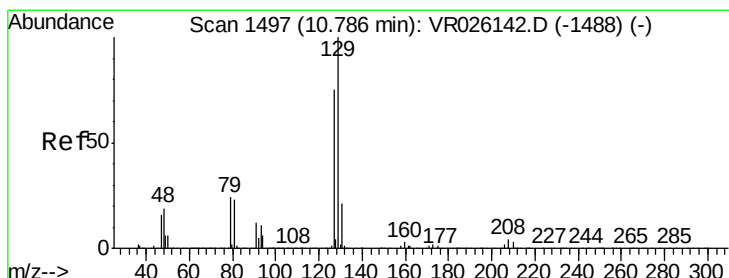
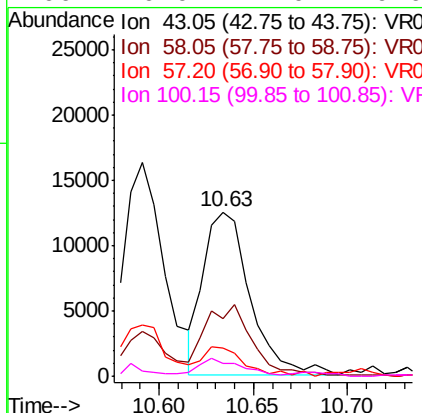
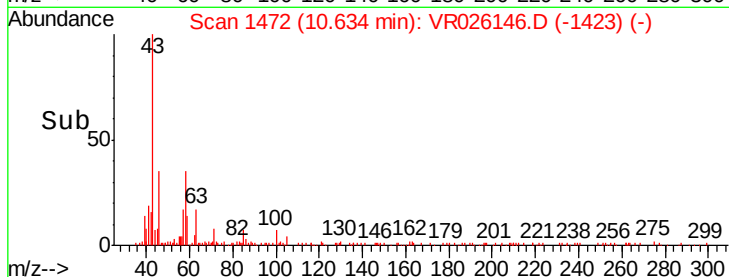
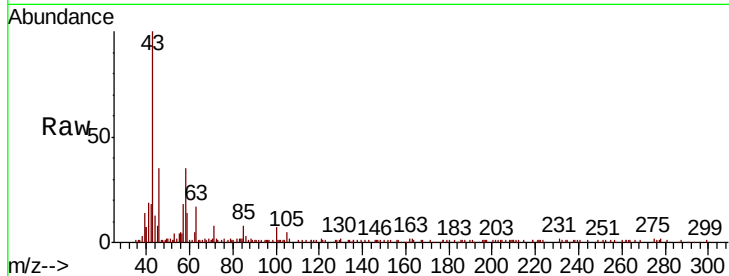
#48
2-Hexanone
Concen: 2.830 ug/L
RT: 10.63 min Scan# 1472
Delta R.T. -0.00 min
Lab File: VR026146.D
Acq: 19 Oct 2018 12:58

Instrument :
MSVOA_R
ClientSampled :
MDL

Tot Ion	Ratio	Lower	Upper
43	100		
58	45.2	39.6	59.4
57	16.9	14.0	21.0
100	10.0	7.0	10.6

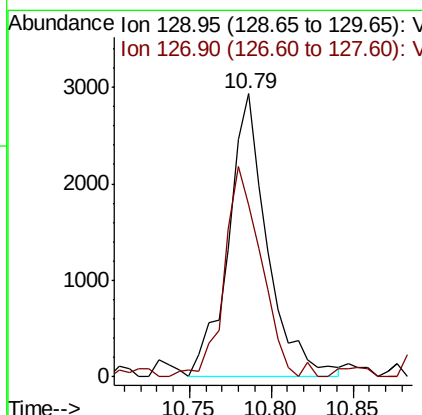
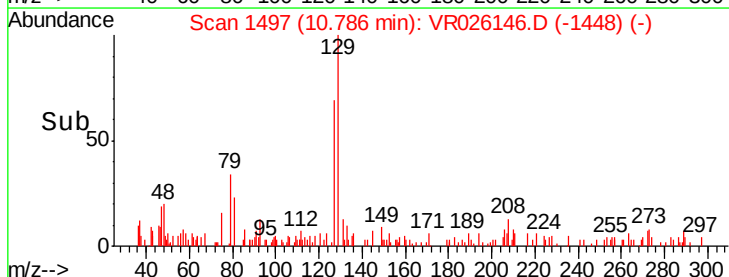
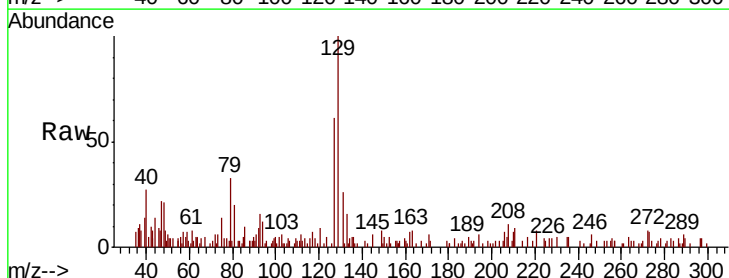
Manual Integrations
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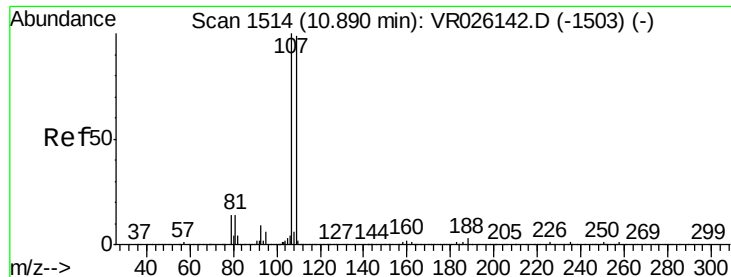
MMDadoda
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#49
Dibromochloromethane
Concen: 0.270 ug/L
RT: 10.79 min Scan# 1497
Delta R.T. -0.00 min
Lab File: VR026146.D
Acq: 19 Oct 2018 12:58

Tgt Ion	Ratio	Lower	Upper
129	100		
127	60.6	55.0	102.2





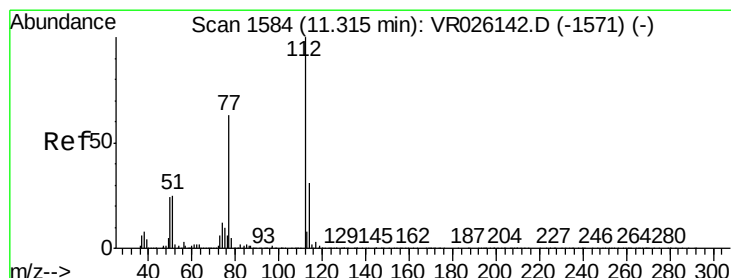
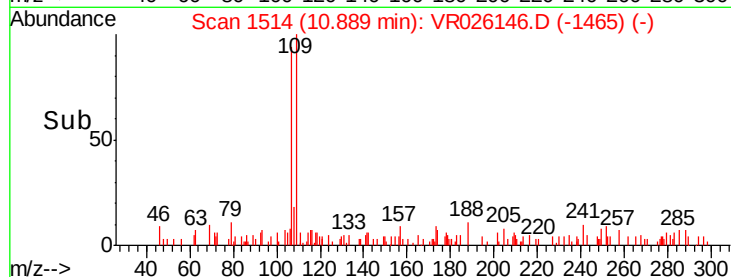
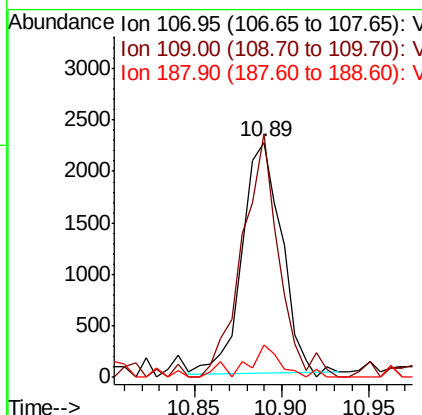
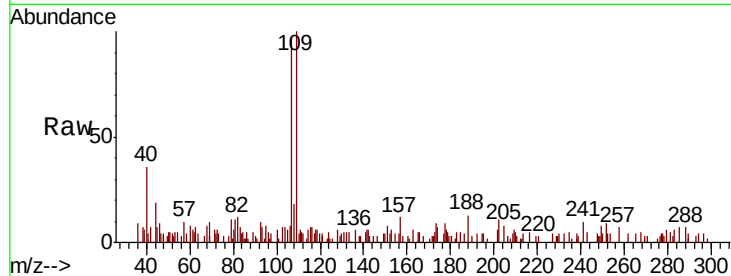
#50
1,2-Dibromoethane
Concen: 0.257 ug/L
RT: 10.89 min Scan# 1514
Delta R.T. -0.00 min
Lab File: VR026146.D
Acq: 19 Oct 2018 12:58

Instrument :
MSVOA_R
ClientSampled :
MDL

Tot Ion	Ratio	Lower	Upper
107	100		
109	103.5	58.7	109.1
188	14.0	2.9	4.3#

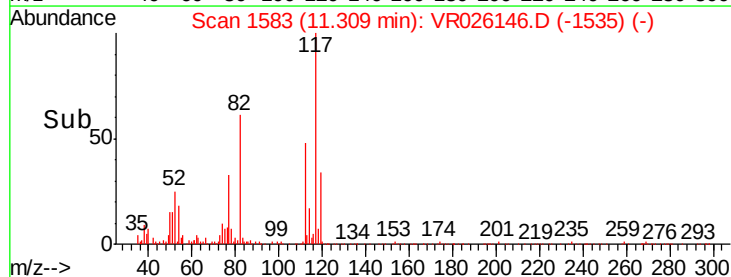
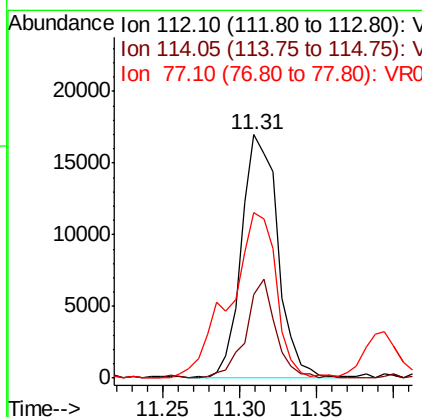
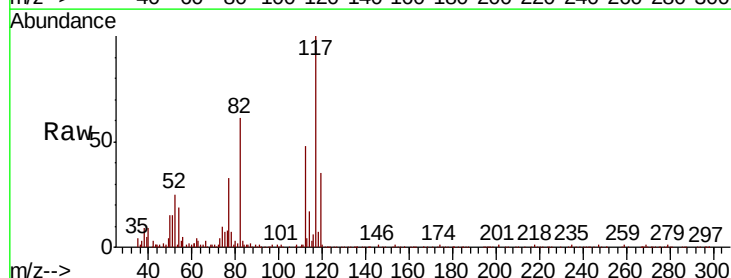
Manual Integrations
APPROVED

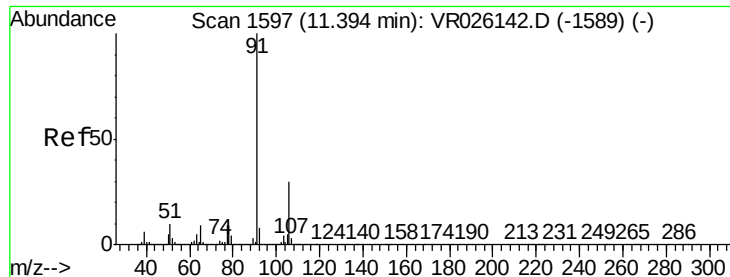
MMDadoda
10/24/2018 12:17:32 PM



#51
Chlorobenzene
Concen: 0.268 ug/L
RT: 11.31 min Scan# 1583
Delta R.T. -0.01 min
Lab File: VR026146.D
Acq: 19 Oct 2018 12:58

Tgt Ion	Ratio	Lower	Upper
112	100		
114	34.3	22.8	42.4
77	68.1	51.5	77.3





#52

Ethylbenzene

Concen: 0.229 ug/L

RT: 11.39 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VR026146.D

Acq: 19 Oct 2018 12:58

Instrument :

MSVOA_R

ClientSampleId :

MDL

Tot Ion: 91 Resp: 49785

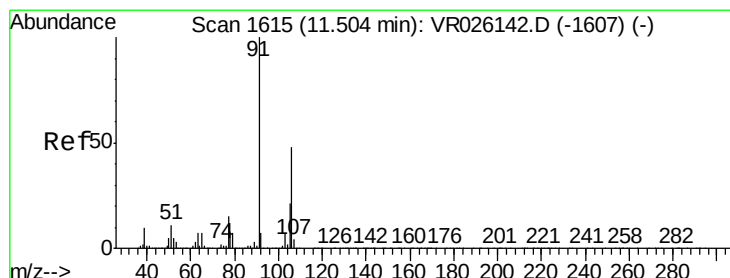
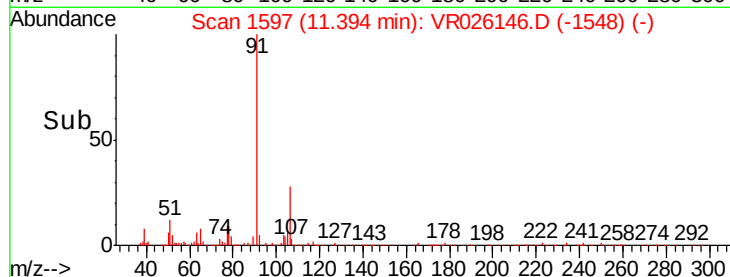
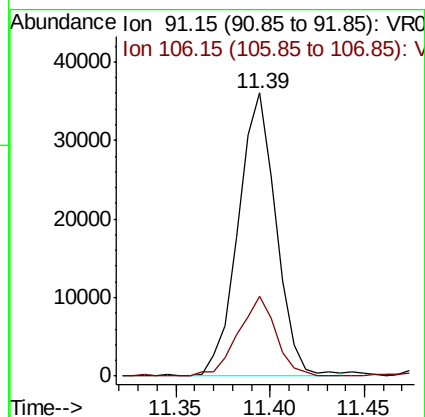
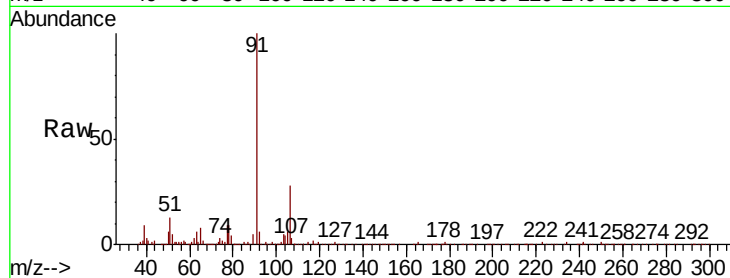
Ion Ratio Lower Upper

91 100

106 28.2 21.2 39.4

Manual Integrations
APPROVED

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#53

m,p-Xylene

Concen: 0.207 ug/L

RT: 11.50 min Scan# 1615

Delta R.T. -0.00 min

Lab File: VR026146.D

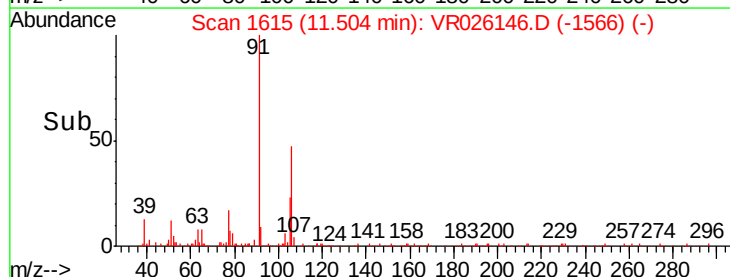
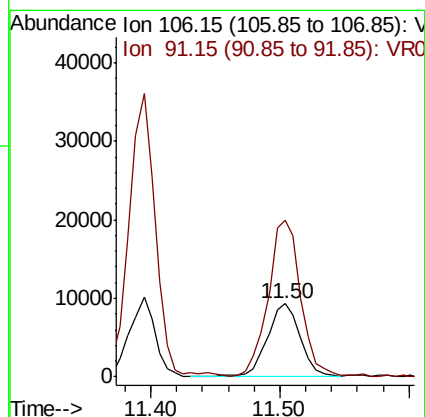
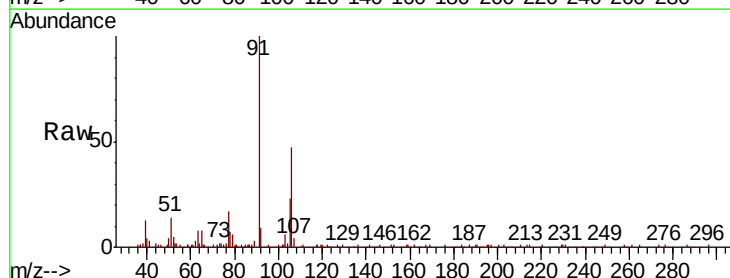
Acq: 19 Oct 2018 12:58

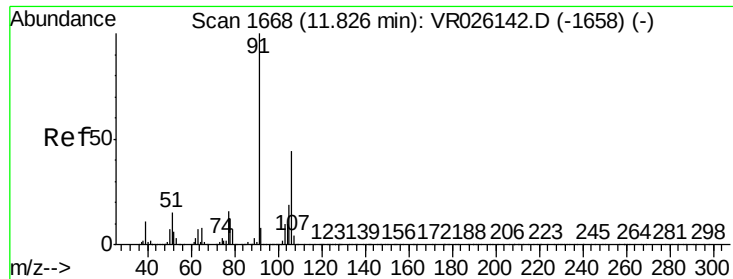
Tgt Ion: 106 Resp: 16382

Ion Ratio Lower Upper

106 100

91 214.0 145.3 269.8





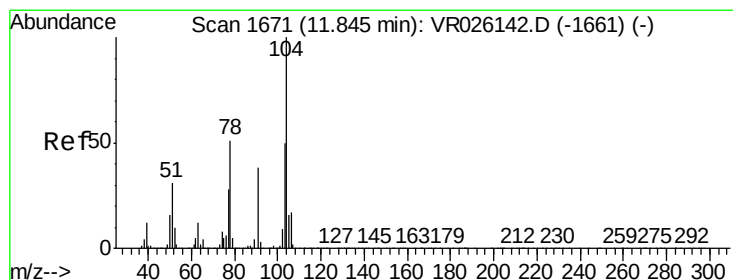
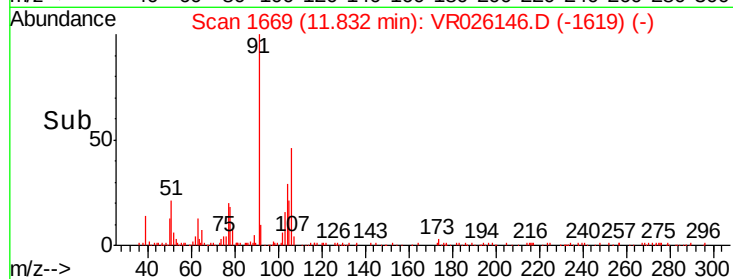
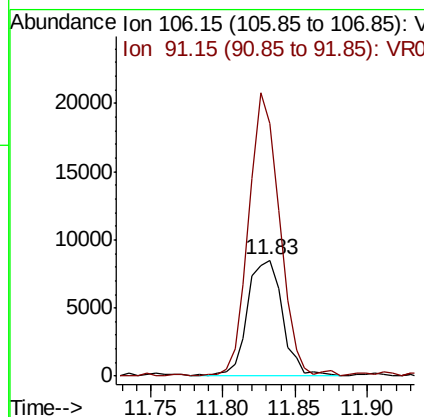
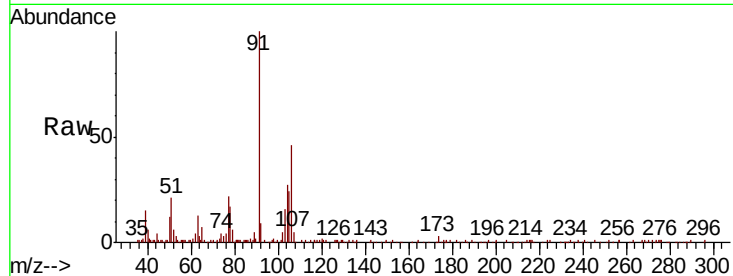
#54
o-Xylene
Concen: 0.197 ug/L
RT: 11.83 min Scan# 1669
Delta R.T. 0.01 min
Lab File: VR026146.D
Acq: 19 Oct 2018 12:58

Instrument :
MSVOA_R
ClientSampleId :
MDL

Tot Ion	Ratio	Lower	Upper
106	100		
91	218.4	155.8	289.3

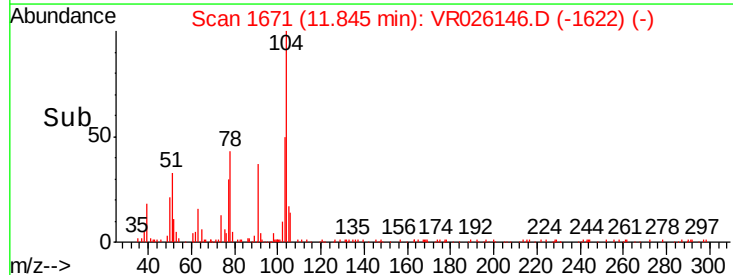
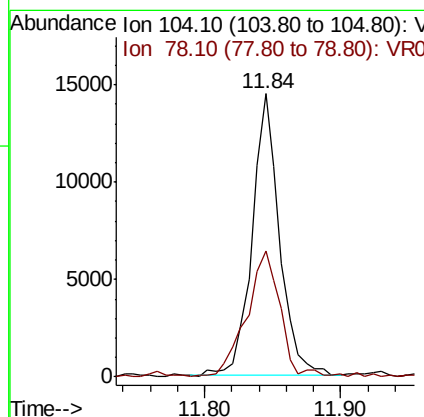
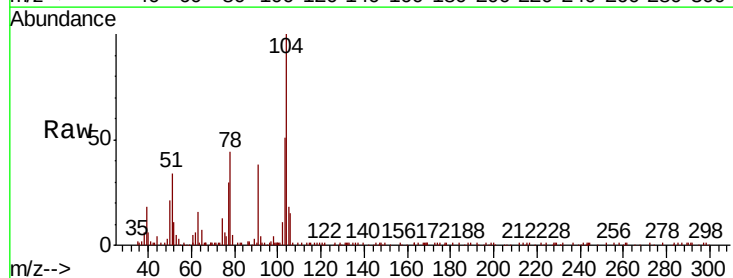
Manual Integrations
APPROVED

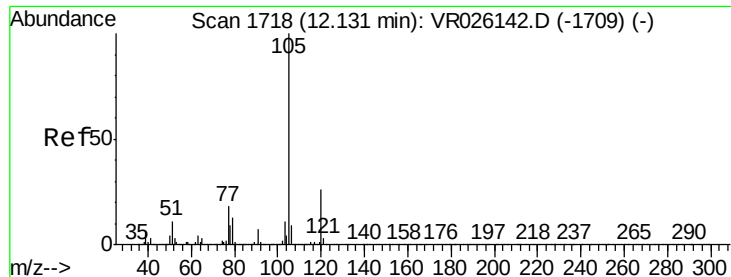
MMDadoda
10/24/2018 12:17:32 PM



#55
Styrene
Concen: 0.182 ug/L
RT: 11.84 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VR026146.D
Acq: 19 Oct 2018 12:58

Tgt Ion	Ratio	Lower	Upper
104	100		
78	44.5	34.7	64.5





#56

Isopropylbenzene

Concen: 0.184 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. -0.00 min

Lab File: VR026146.D

Acq: 19 Oct 2018 12:58

Instrument :

MSVOA_R

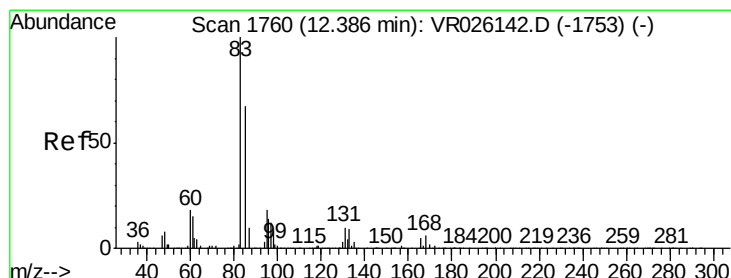
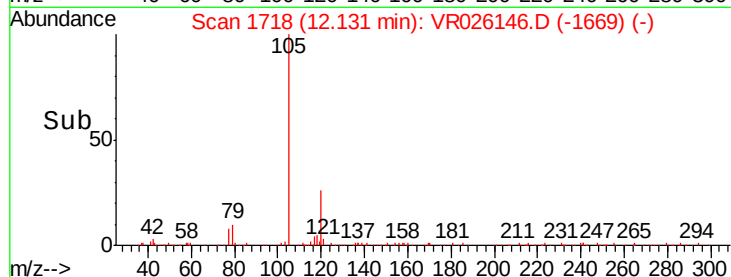
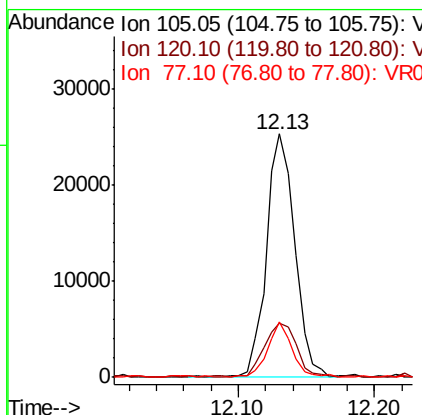
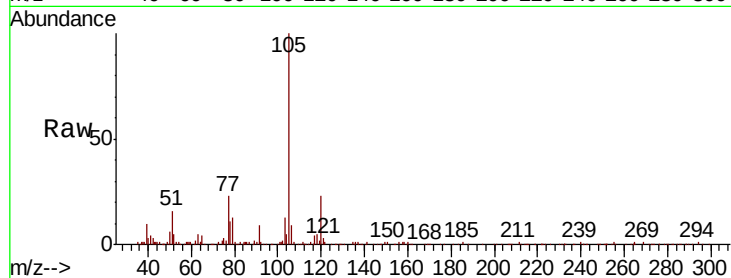
ClientSampleId :

MDL

Tot Ion:	105	Resp:	37162
Ion Ratio	Lower	Upper	
105	100		
120	24.7	21.0	31.4
77	20.1	14.6	21.8

Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:17:32 PM



#58

1,1,2,2-Tetrachloroethane

Concen: 0.335 ug/L

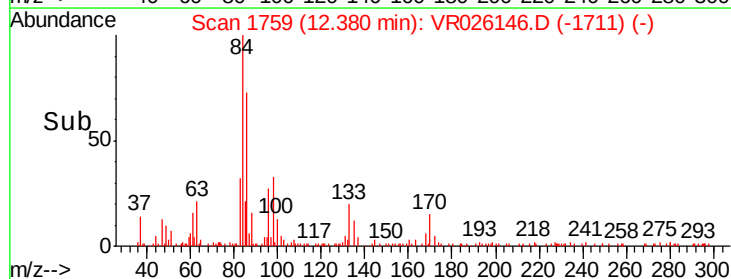
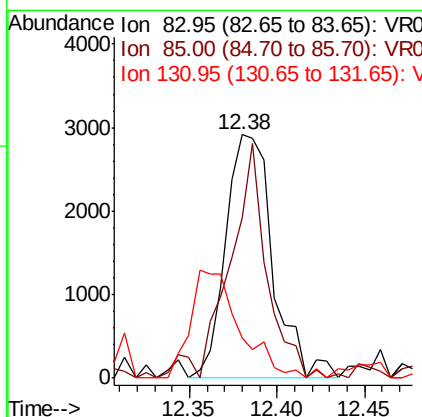
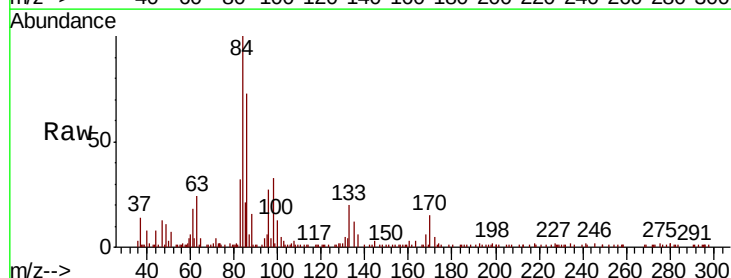
RT: 12.38 min Scan# 1759

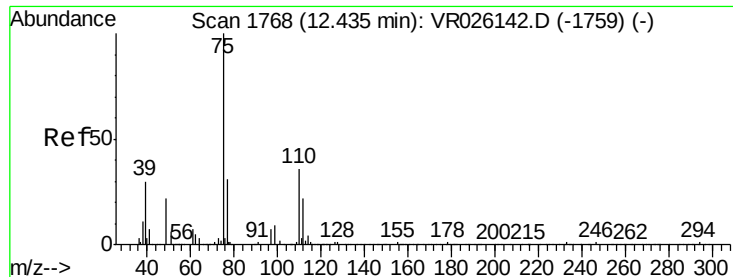
Delta R.T. -0.01 min

Lab File: VR026146.D

Acq: 19 Oct 2018 12:58

Tgt Ion:	83	Resp:	5443
Ion Ratio	Lower	Upper	
83	100		
85	66.1	44.0	81.8
131	16.6	8.0	12.0#





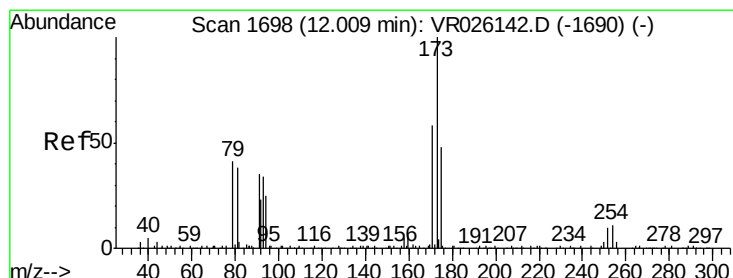
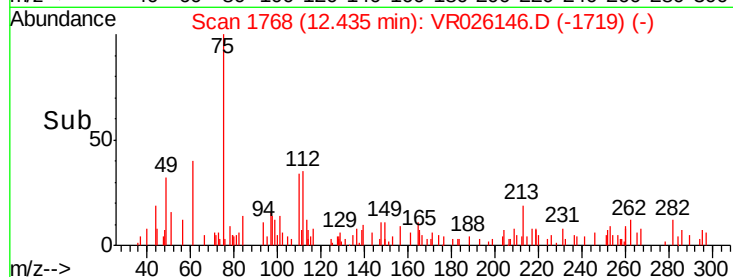
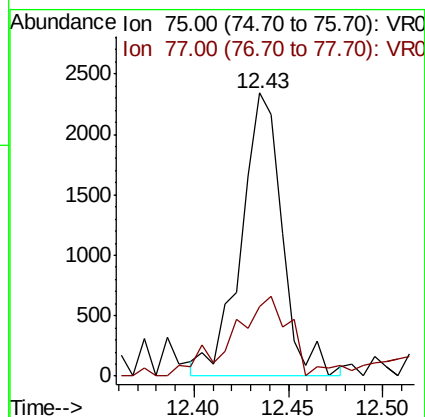
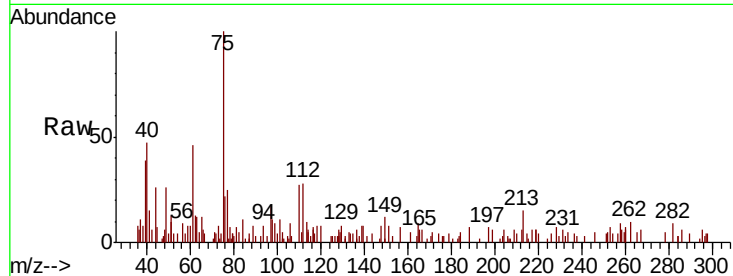
#59
 1,2,3-Trichloropropane
 Concen: 0.297 ug/L
 RT: 12.43 min Scan# 1768
 Delta R.T. -0.00 min
 Lab File: VR026146.D
 Acq: 19 Oct 2018 12:58

Instrument :
 MSVOA_R
 ClientSampled :
 MDL

Tot Ion: 75 Resp: 3534
 Ion Ratio Lower Upper
 75 100
 77 40.2 26.2 39.2#

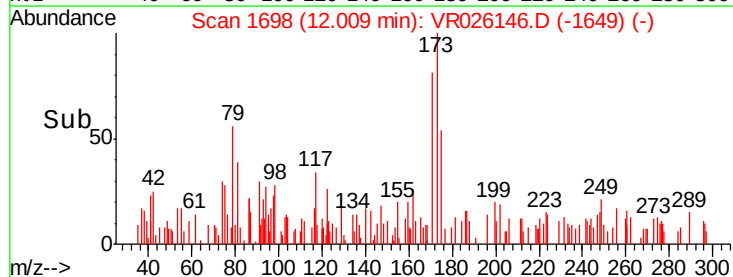
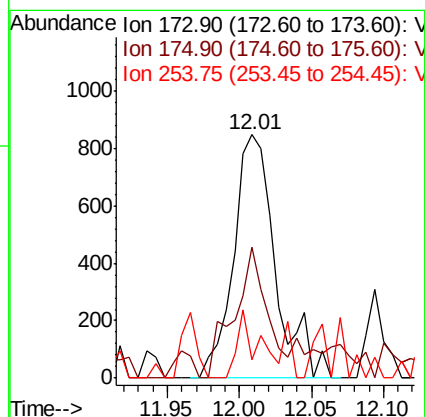
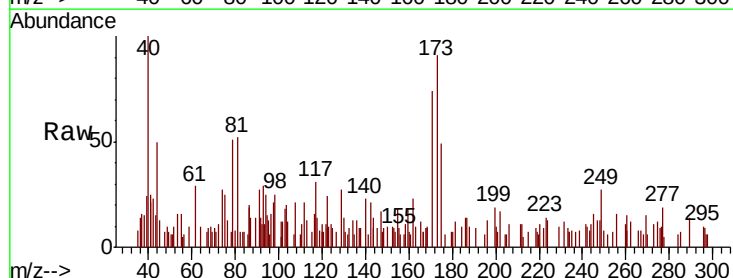
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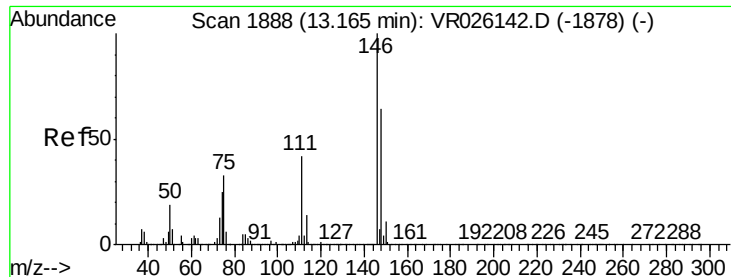
MMDadoda
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#61
 Bromoform
 Concen: 0.325 ug/L
 RT: 12.01 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VR026146.D
 Acq: 19 Oct 2018 12:58

Tgt Ion: 173 Resp: 1721
 Ion Ratio Lower Upper
 173 100
 175 42.7 39.0 58.4
 254 14.5 8.1 12.1#





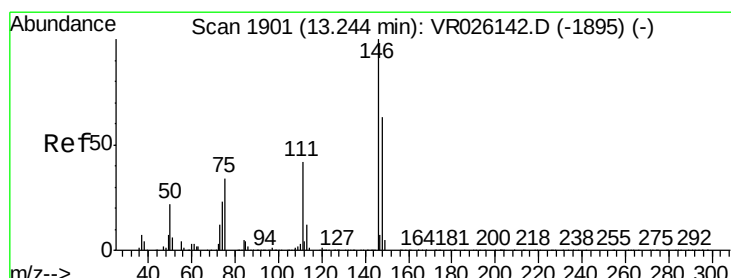
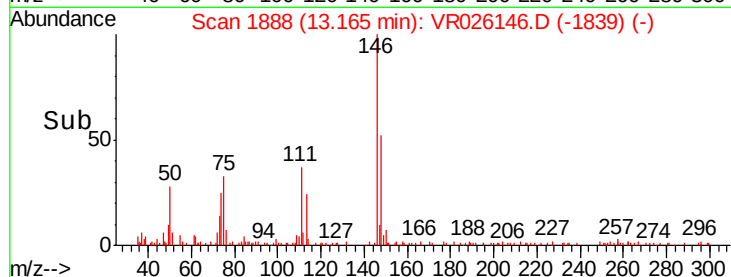
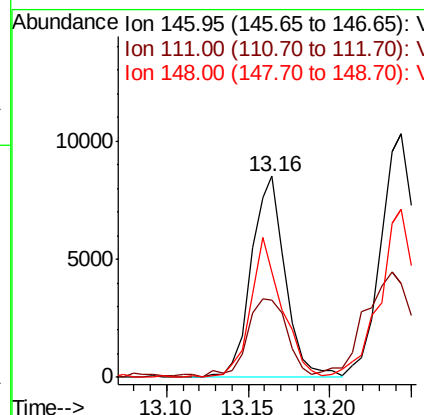
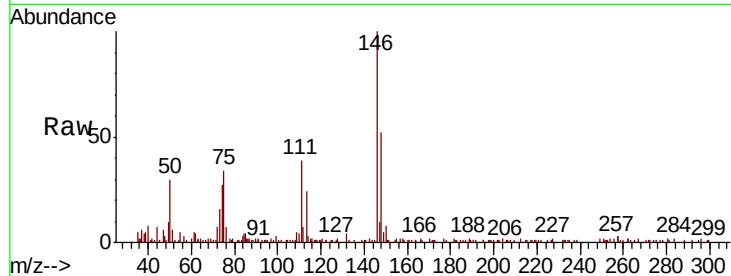
#62
1,3-Dichlorobenzene
Concen: 0.242 ug/L
RT: 13.16 min Scan# 1888
Delta R.T. -0.00 min
Lab File: VR026146.D
Acq: 19 Oct 2018 12:58

Instrument :
MSVOA_R
ClientSampled :
MDL

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	32.1	59.7
148	52.3	43.8	81.3

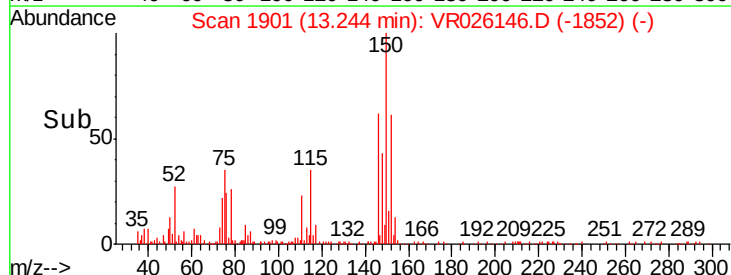
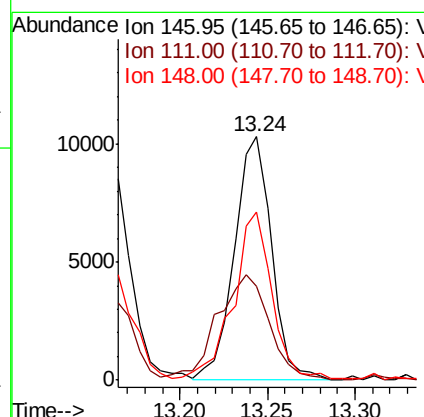
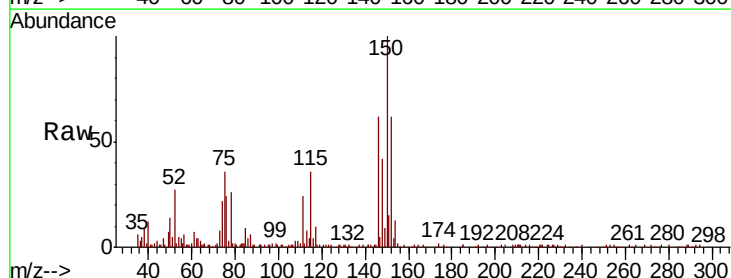
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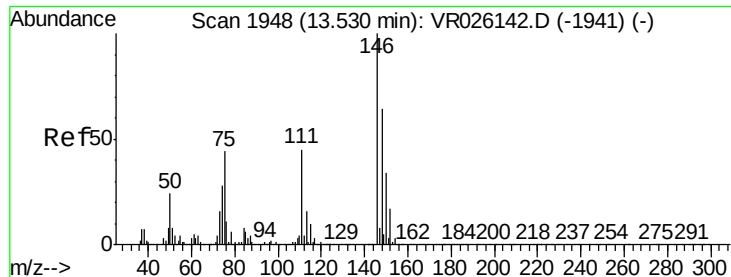
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#63
1,4-Dichlorobenzene
Concen: 0.291 ug/L
RT: 13.24 min Scan# 1901
Delta R.T. -0.00 min
Lab File: VR026146.D
Acq: 19 Oct 2018 12:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.8	32.6	60.6
148	68.8	46.7	86.7





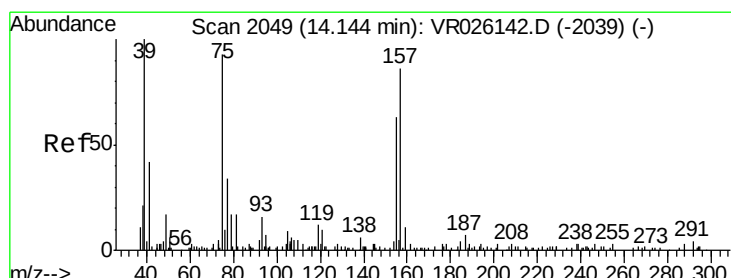
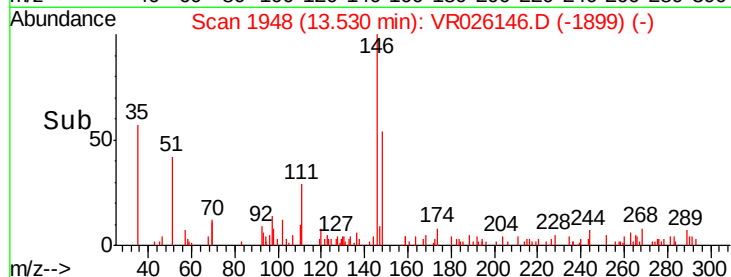
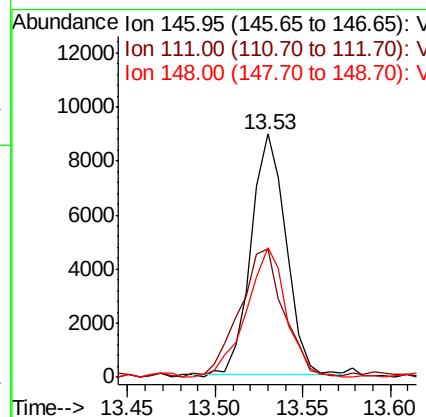
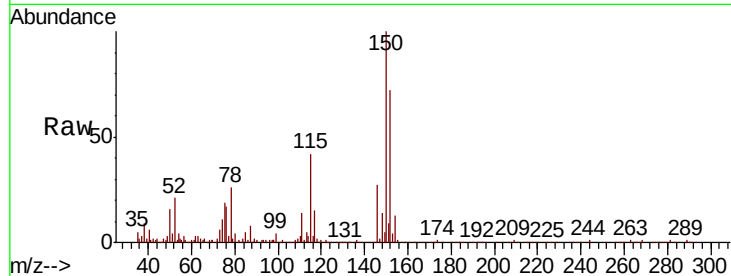
#65
 1,2-Dichlorobenzene
 Concen: 0.305 ug/L
 RT: 13.53 min Scan# 1948
 Delta R.T. -0.00 min
 Lab File: VR026146.D
 Acq: 19 Oct 2018 12:58

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL

Tot Ion	Ratio	Lower	Upper
146	100		
111	52.7	35.2	52.8
148	53.2	51.2	76.8

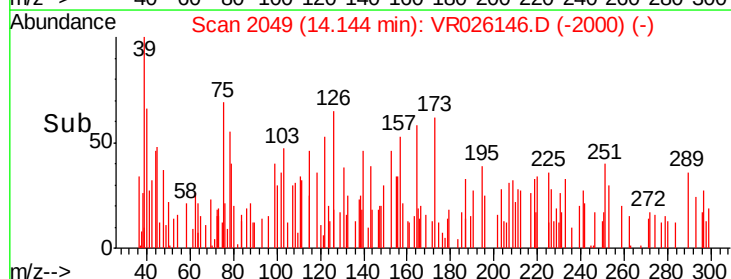
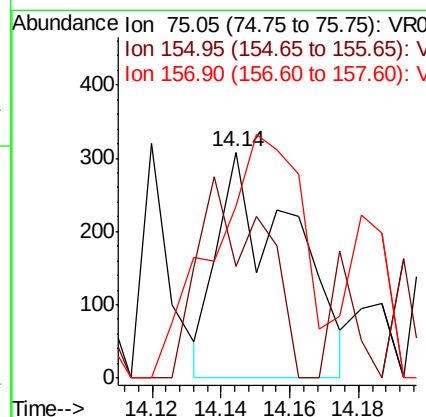
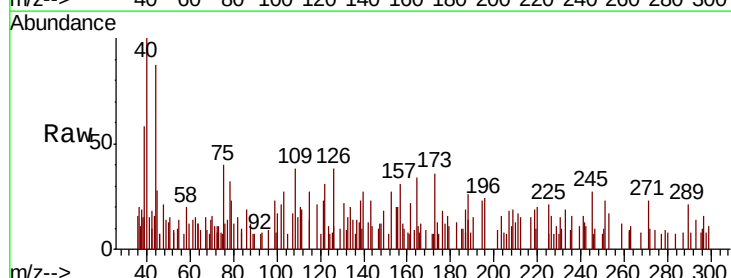
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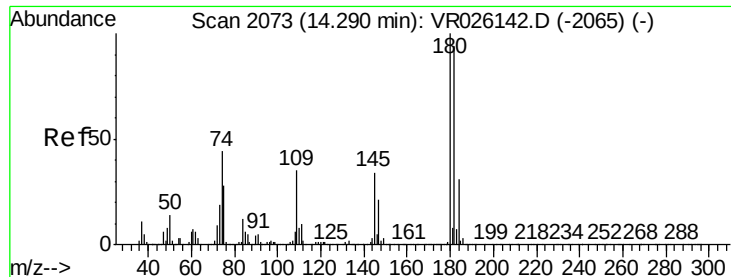
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.279 ug/L m
 RT: 14.14 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VR026146.D
 Acq: 19 Oct 2018 12:58

Tgt Ion	Ratio	Lower	Upper
75	100		
155	49.7	40.9	61.3
157	76.3	67.3	100.9





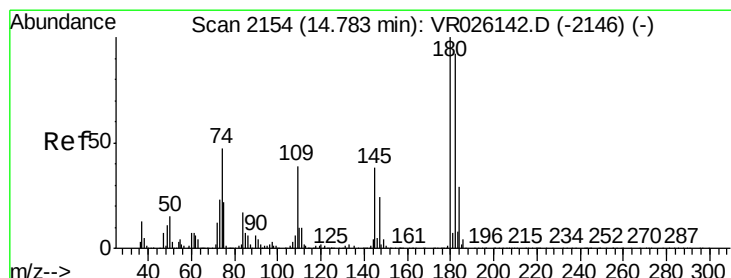
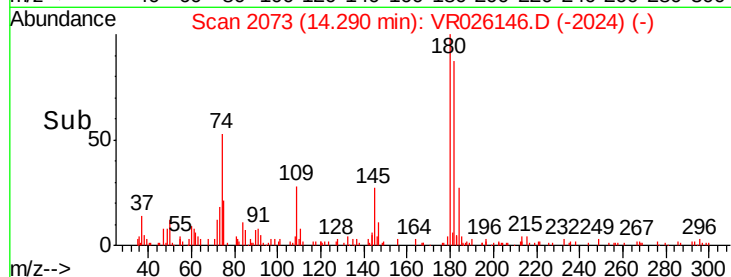
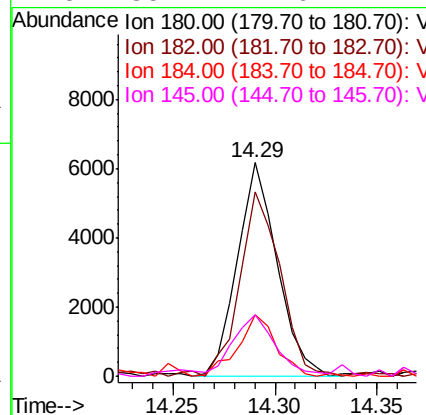
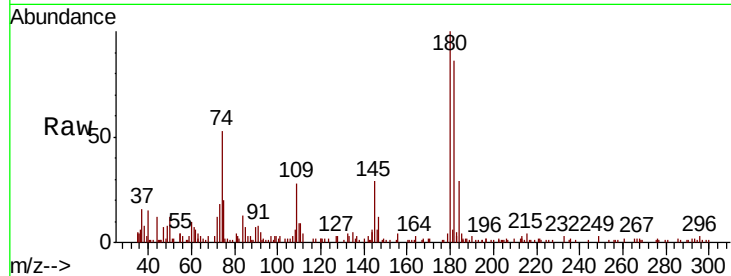
#67
 1,3,5-Trichlorobenzene
 Concen: 0.272 ug/L
 RT: 14.29 min Scan# 2073
 Delta R.T. -0.00 min
 Lab File: VR026146.D
 Acq: 19 Oct 2018 12:58

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL

Tot Ion:	180	Resp:	8399
Ion Ratio	Lower	Upper	
180	100		
182	87.4	77.5	116.3
184	27.4	25.0	37.4
145	33.1	27.6	41.4

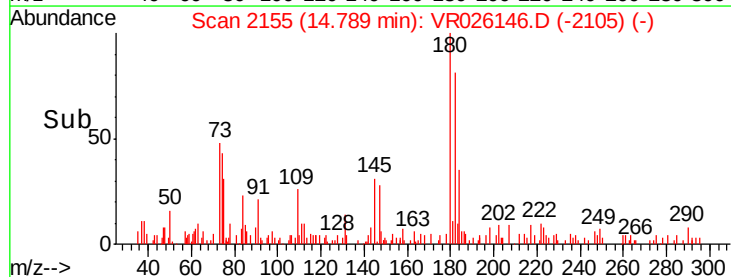
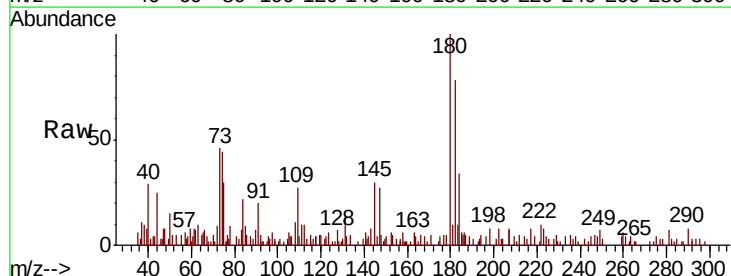
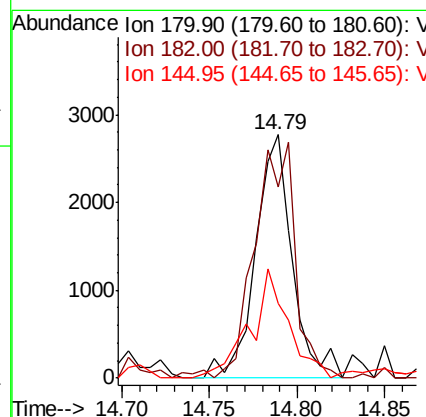
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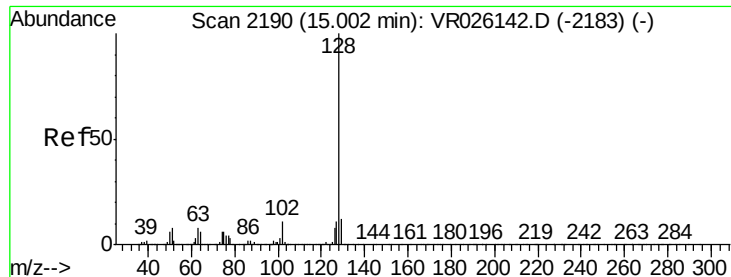
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#68
 1,2,4-trichlorobenzene
 Concen: 0.224 ug/L
 RT: 14.79 min Scan# 2155
 Delta R.T. 0.01 min
 Lab File: VR026146.D
 Acq: 19 Oct 2018 12:58

Tgt Ion:	180	Resp:	4042
Ion Ratio	Lower	Upper	
180	100		
182	105.2	76.1	114.1
145	46.5	28.2	42.4#





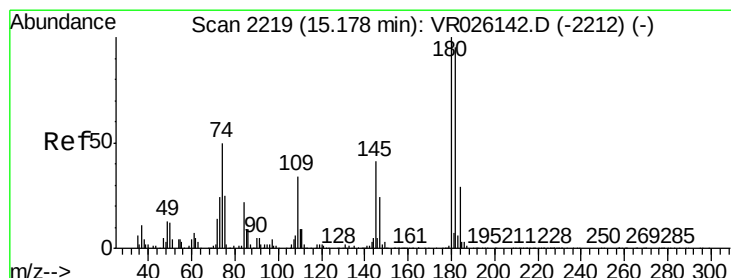
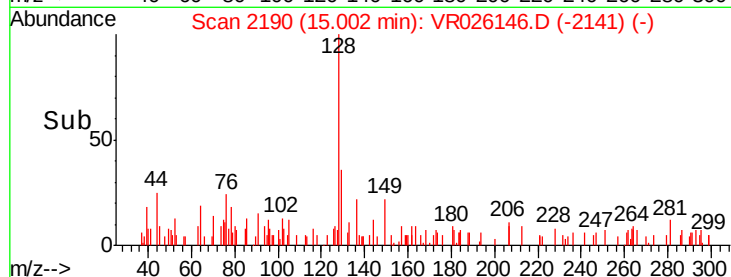
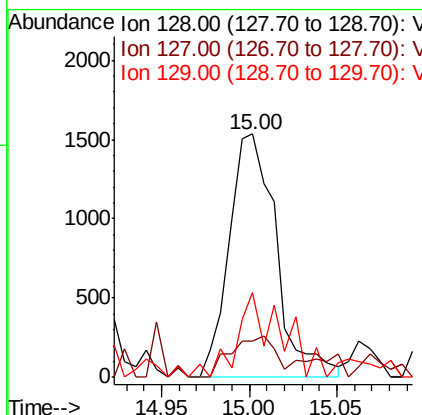
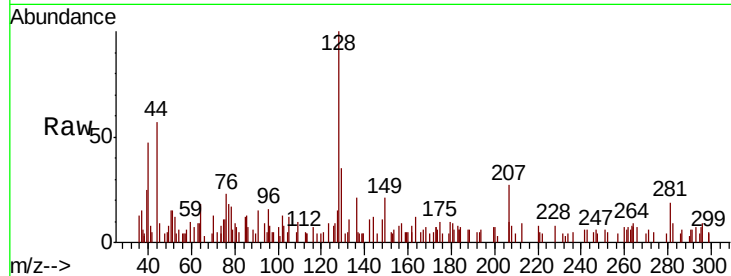
#69
Naphthalene
Concen: 0.164 ug/L
RT: 15.00 min Scan# 2190
Delta R.T. -0.00 min
Lab File: VR026146.D
Acq: 19 Oct 2018 12:58

Instrument :
MSVOA_R
ClientSampleId :
MDL

Tot Ion	Ratio	Resp	Lower	Upper
128	100	2878		
127	18.5		11.0	16.6#
129	33.1		9.1	13.7#

Manual Integrations
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#70
1,2,3-Trichlorobenzene
Concen: 0.267 ug/L
RT: 15.18 min Scan# 2219
Delta R.T. -0.00 min
Lab File: VR026146.D
Acq: 19 Oct 2018 12:58

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	3346		
182	97.8		75.7	113.5
145	17.6		28.8	43.2#

