

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051719\
 Data File : VL033715.D
 Acq On : 17 May 2019 14:04
 Operator : SY/AP
 Sample : K2904-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 S-02

Manual Integrations
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 5/20/2019 12:06:11 PM

Quant Time: May 18 01:07:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 18 2019
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1027936	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2615096	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2396703	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1968216	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	45416	0.210	ppbv	96
3) Chlorodifluoromethane	3.01	51	1015954m	8.628	ppbv	
4) Chloromethane	3.17	50	28282	0.420	ppbv	99
11) Trichlorofluoromethane	4.00	101	449997	2.176	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	15214m	0.105	ppbv	
13) Ethanol	3.66	45	3164206	195.475	ppbv	99
15) Acetone	3.90	43	1465783m	10.277	ppbv	
17) tert-Butyl alcohol	4.37	59	114397	0.992	ppbv	98
18) 1,1-Dichloroethene	4.35	96	8158m	0.134	ppbv	
20) Methylene Chloride	4.41	84	585185	10.657	ppbv	100
26) Hexane	5.78	57	225722	2.096	ppbv #	48
27) Carbon Disulfide	4.62	76	268718	1.819	ppbv	98
29) Chloroform	5.84	83	1767299	8.908	ppbv	99
30) Cyclohexane	7.25	84	11755m	0.130	ppbv	
31) cis-1,2-Dichloroethene	5.64	61	146769	1.374	ppbv	96
32) 1,1,1-Trichloroethane	6.61	97	17352	0.088	ppbv	96
34) 2-Butanone	5.33	43	67863	0.419	ppbv	100
35) Carbon Tetrachloride	7.13	117	10201	0.049	ppbv #	91
36) Benzene	7.00	78	21378	0.090	ppbv #	87
38) Trichloroethene	7.96	130	568862	6.445	ppbv	97
42) Bromodichloromethane	7.91	83	93939	0.447	ppbv	98
52) Tetrachloroethene	11.37	164	13626	0.163	ppbv	90
53) Toluene	9.94	91	87046	0.339	ppbv	99
61) Styrene	13.68	104	31797m	0.169	ppbv	

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

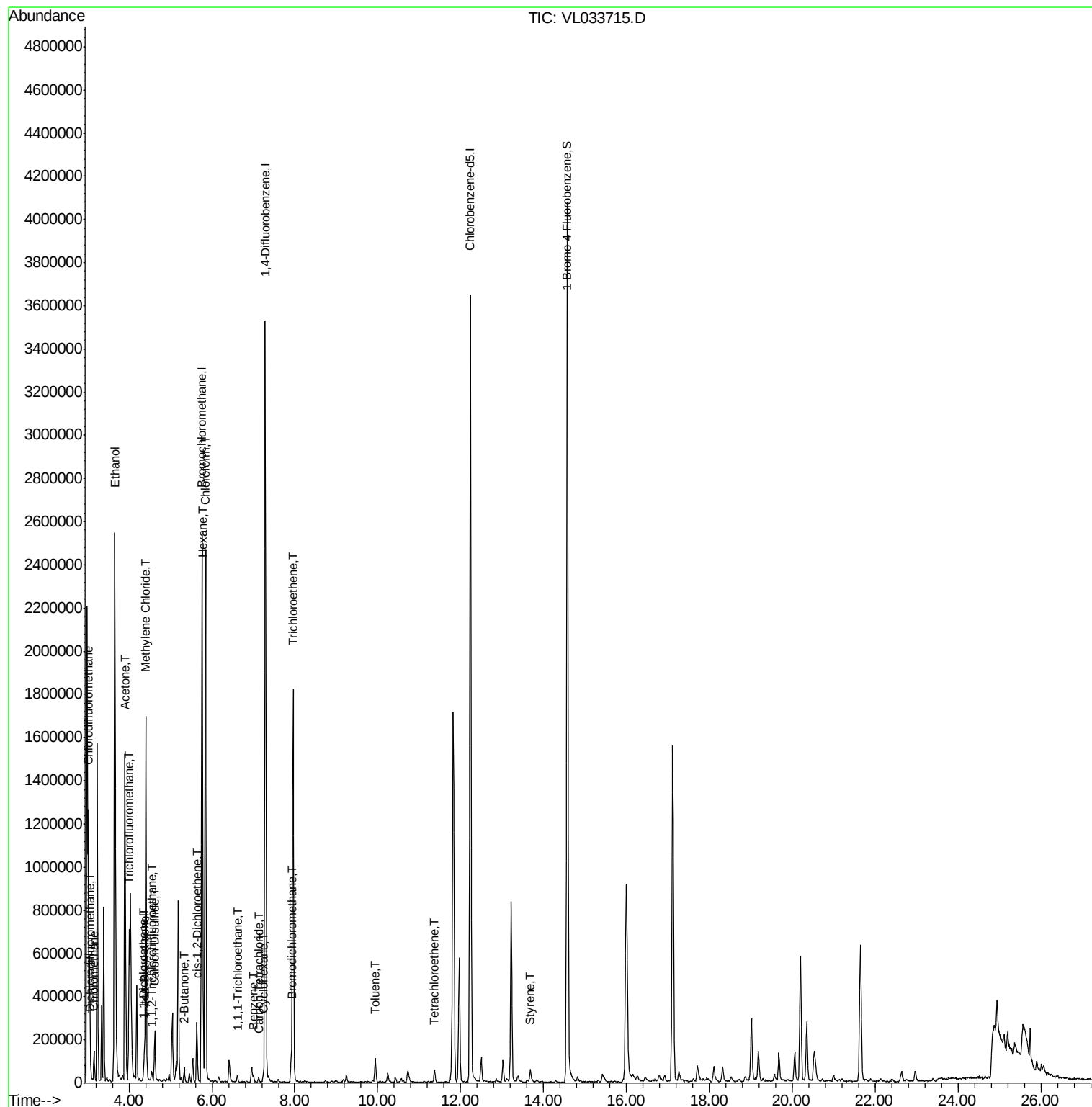
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051719\
Data File : VL033715.D
Acq On : 17 May 2019 14:04
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Misc : 400ml/MSVOA L
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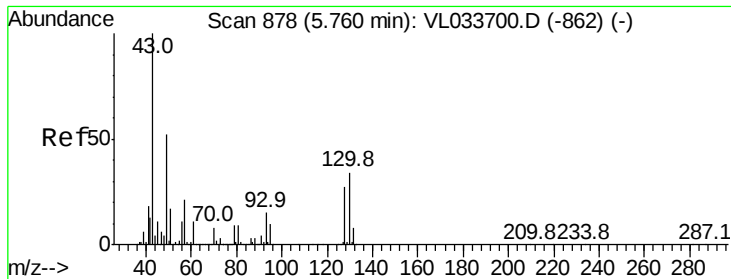
Instrument :
MSVOA_L
ClientSampleId :
S-02

Manual Integrations
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Quant Time: May 18 01:07:05 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration





#1

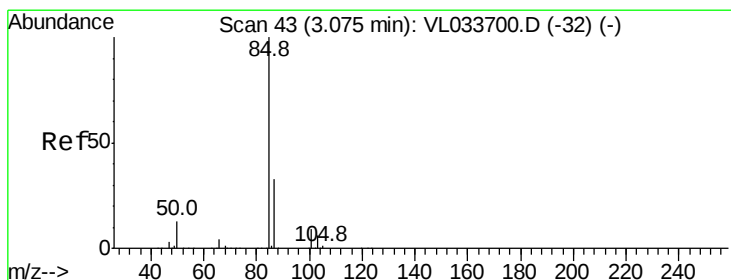
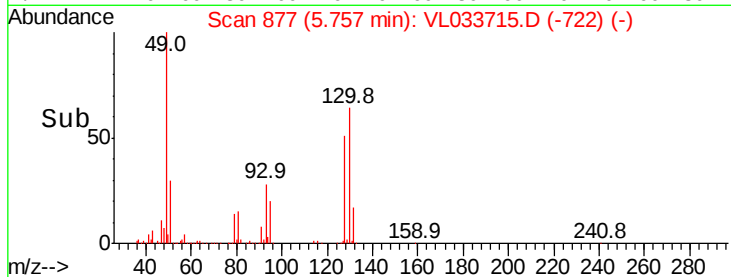
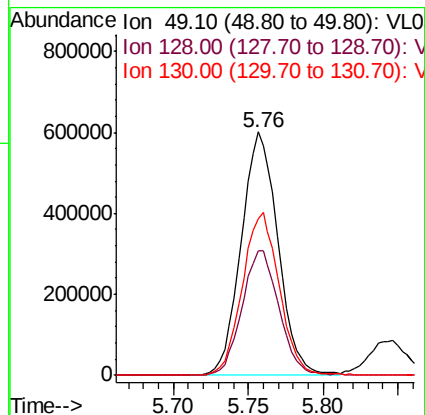
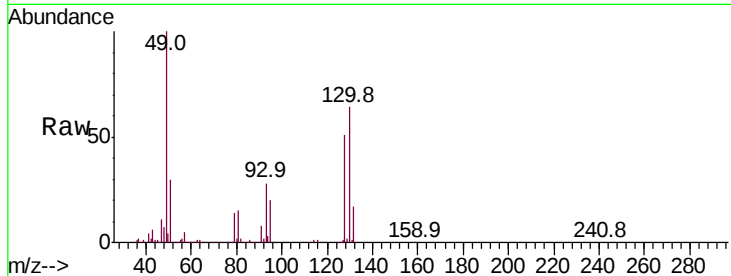
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.76 min Scan# 877
 Delta R.T. -0.00 min
 Lab File: VL033715.D
 Acq: 17 May 2019 14:04

Instrument :
 MSVOA_L
 ClientSampled :
 S-02

Tot Ion: 49 Resp: 1027936
 Ion Ratio Lower Upper
 49 100
 128 52.1 25.2 75.6
 130 67.7 32.5 97.5

Manual Integrations
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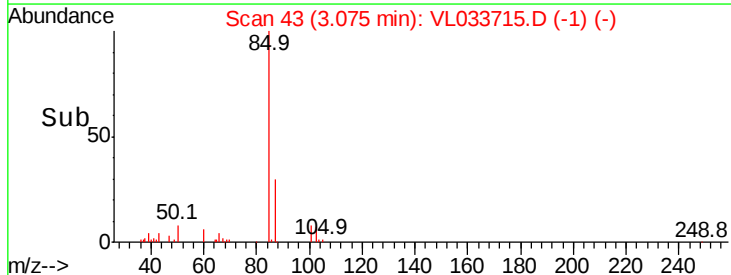
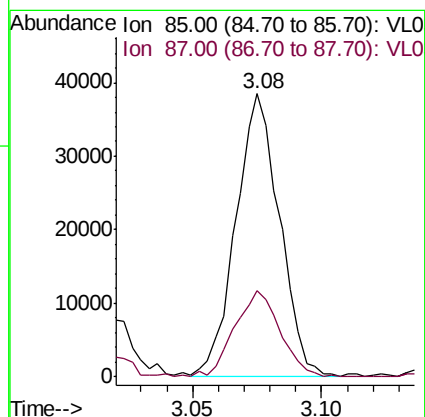
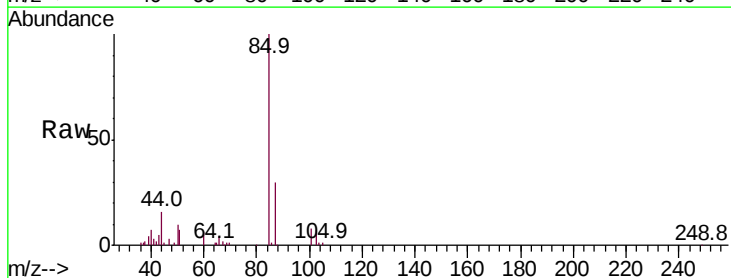
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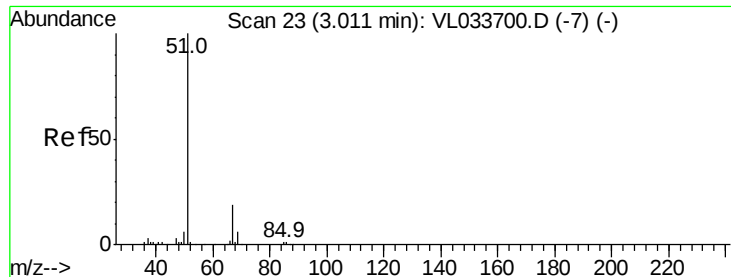


#2

Dichlorodifluoromethane
 Concen: 0.210 ppbv
 RT: 3.08 min Scan# 43
 Delta R.T. 0.00 min
 Lab File: VL033715.D
 Acq: 17 May 2019 14:04

Tgt Ion: 85 Resp: 45416
 Ion Ratio Lower Upper
 85 100
 87 30.4 26.3 39.5





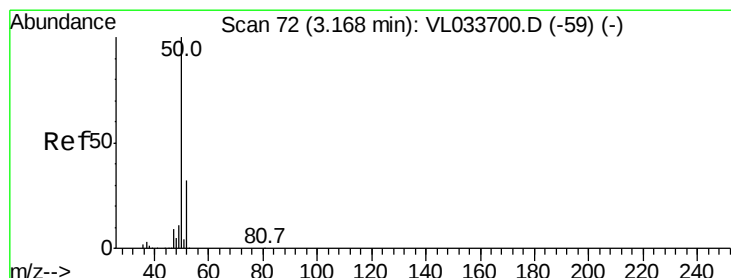
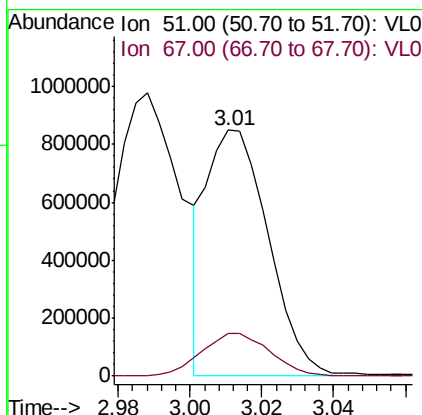
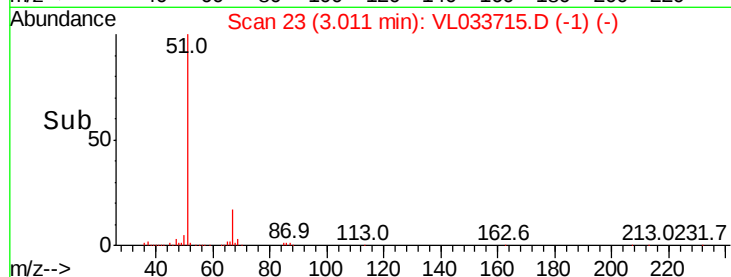
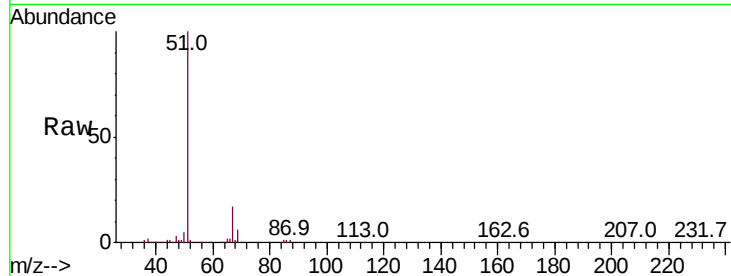
#3
Chlorodifluoromethane
Concen: 8.628 ppbv
RT: 3.01 min Scan# 23
Delta R.T. 0.00 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

Instrument :
MSVOA_L
ClientSampled :
S-02

Tot Ion: 51 Resp: 1015954
Ion Ratio Lower Upper
51 100
67 19.7 15.6 23.4

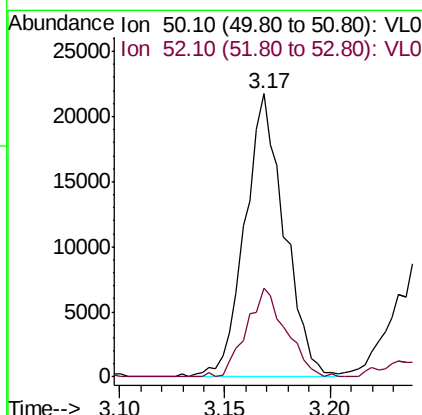
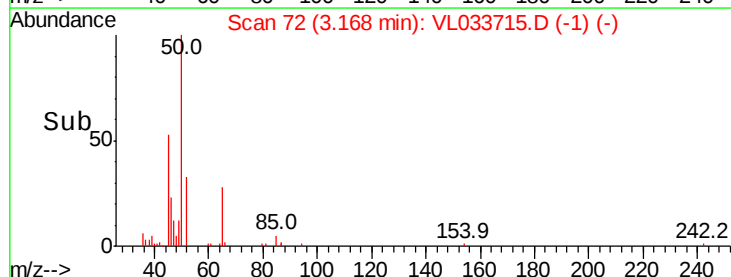
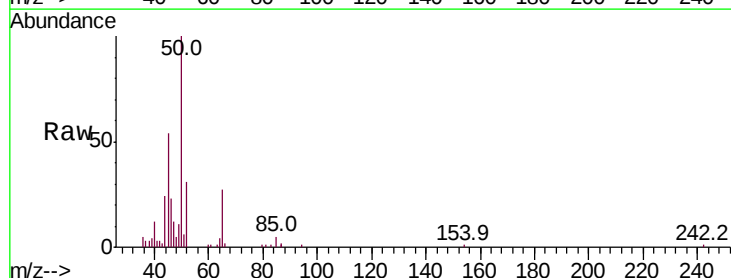
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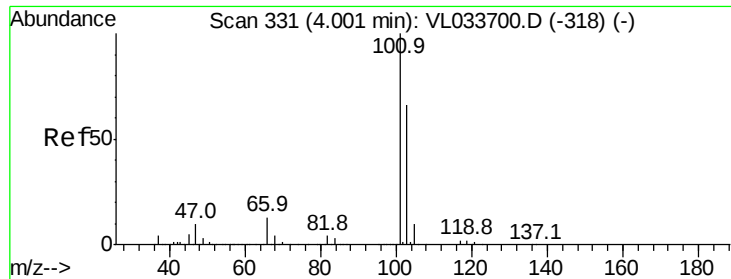
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#4
Chloromethane
Concen: 0.420 ppbv
RT: 3.17 min Scan# 72
Delta R.T. 0.00 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

Tgt Ion: 50 Resp: 28282
Ion Ratio Lower Upper
50 100
52 31.5 25.7 38.5





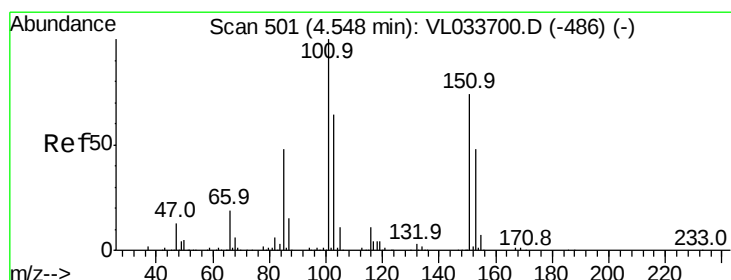
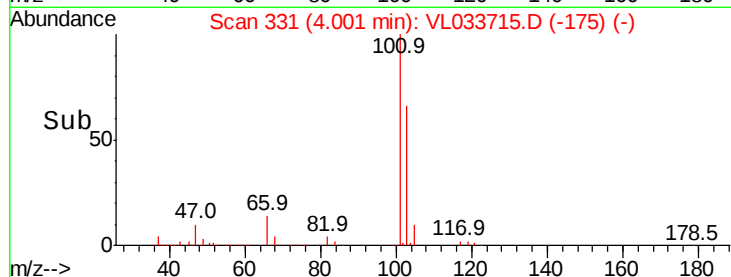
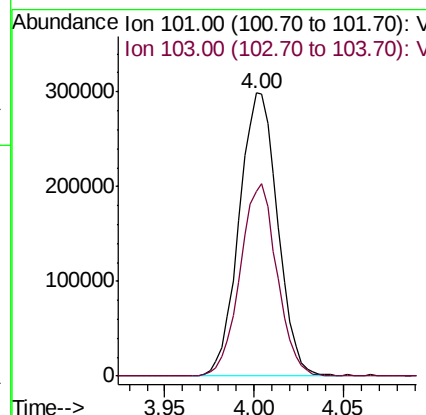
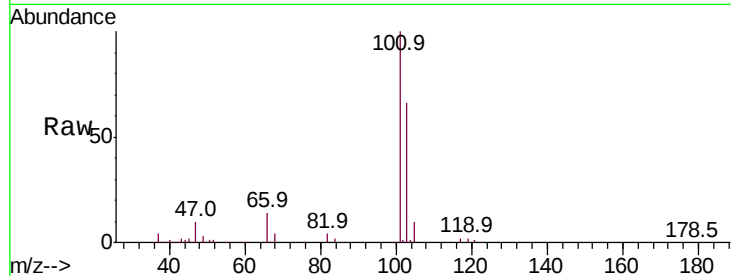
#11
 Trichlorofluoromethane
 Concen: 2.176 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. 0.00 min
 Lab File: VL033715.D
 Acq: 17 May 2019 14:04

Instrument :
 MSVOA_L
 ClientSampleId :
 S-02

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.4	52.6	78.8

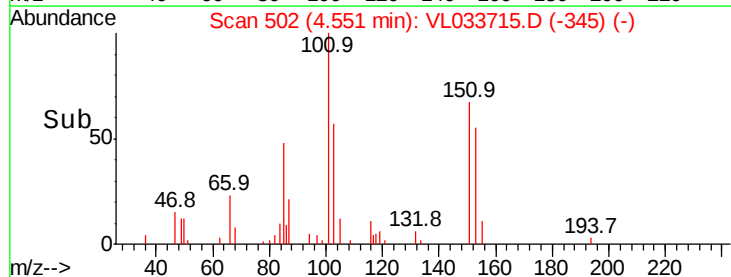
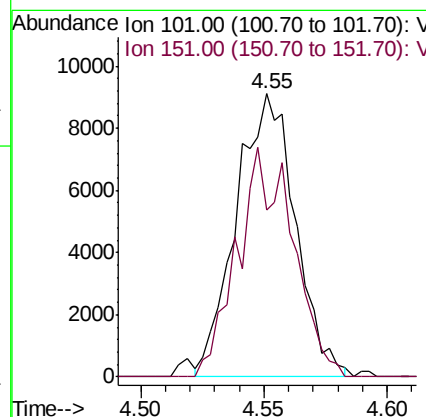
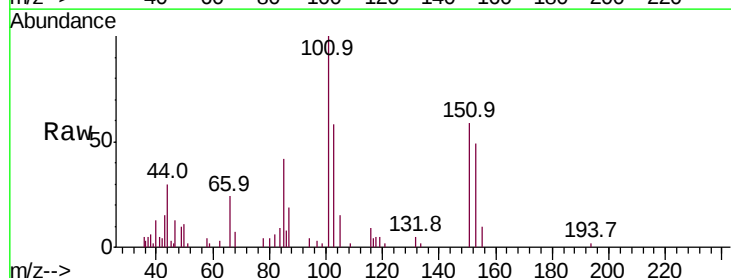
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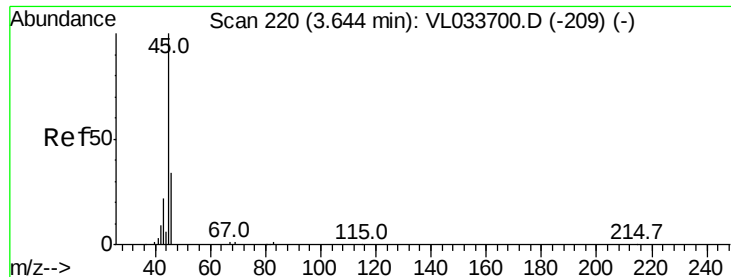
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.105 ppbv m
 RT: 4.55 min Scan# 502
 Delta R.T. 0.00 min
 Lab File: VL033715.D
 Acq: 17 May 2019 14:04

Tgt Ion	Ratio	Lower	Upper
101	100		
151	0.0	58.2	87.4#





#13

Ethanol

Concen: 195.475 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Instrument :

MSVOA_L

ClientSampleId :

S-02

Tot Ion: 45 Resp: 3164206

Ion Ratio Lower Upper

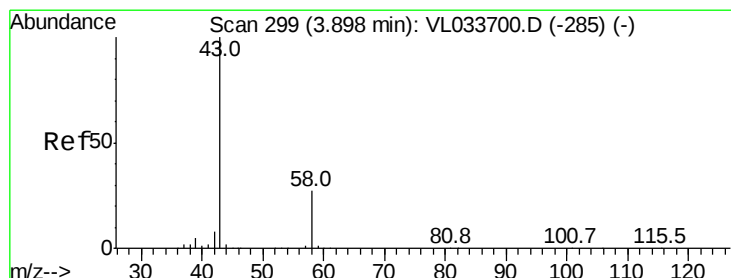
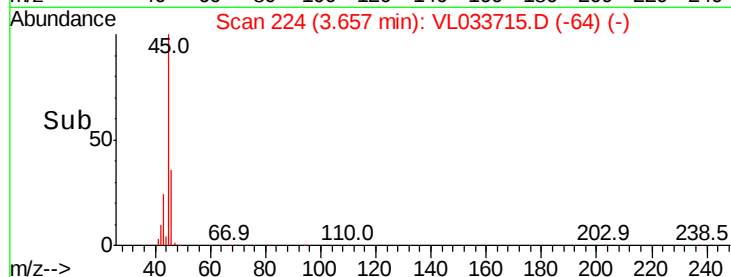
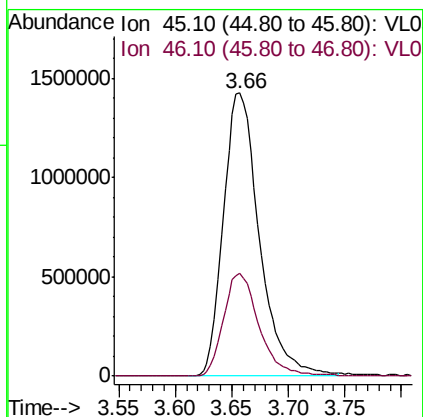
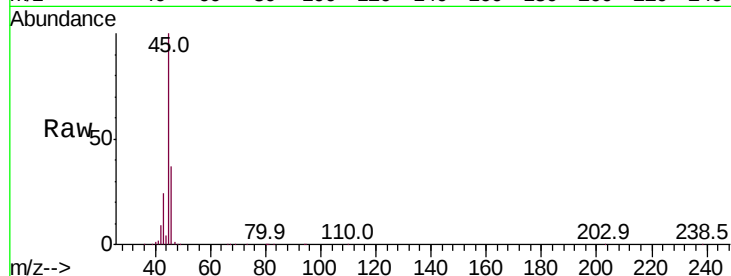
45 100

46 36.2 14.8 59.0

Manual Integrations
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#15

Acetone

Concen: 10.277 ppbv m

RT: 3.90 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL033715.D

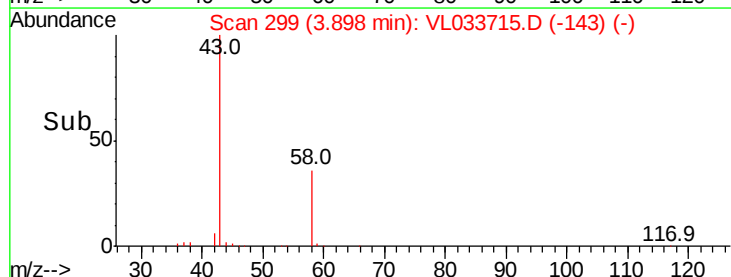
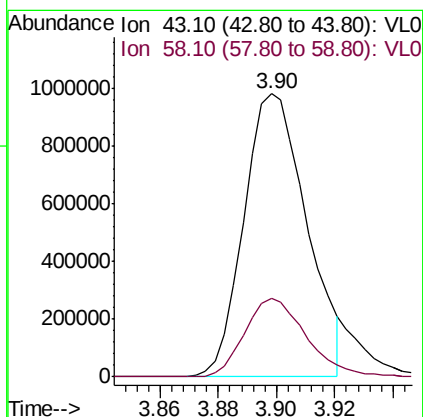
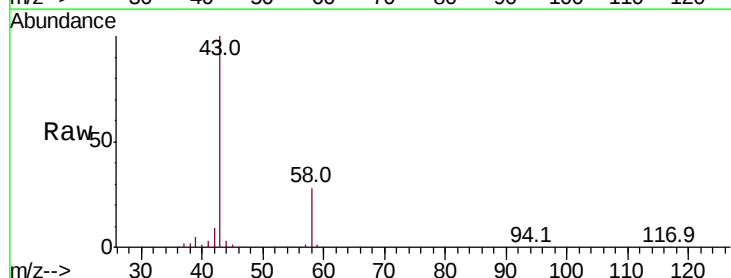
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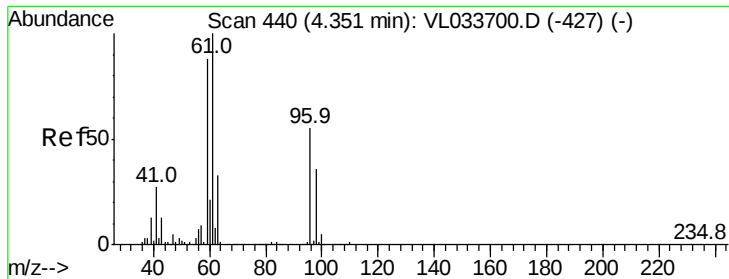
Tgt Ion: 43 Resp: 1465783

Ion Ratio Lower Upper

43 100

58 27.7 21.3 31.9





#17

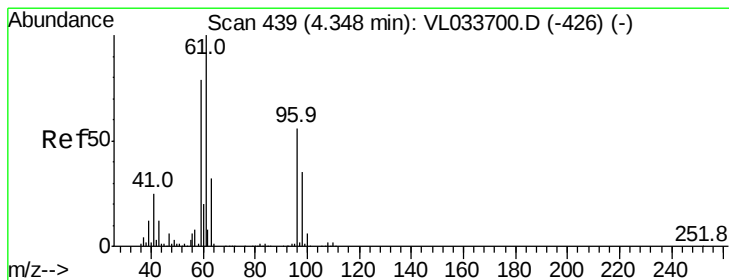
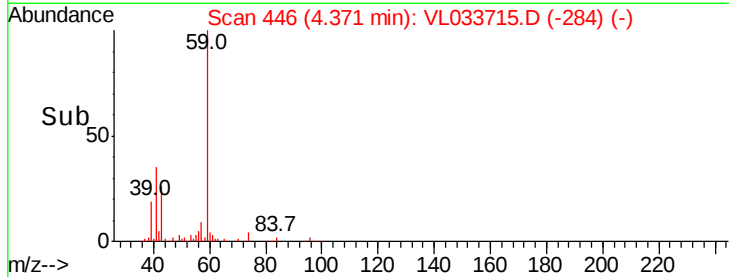
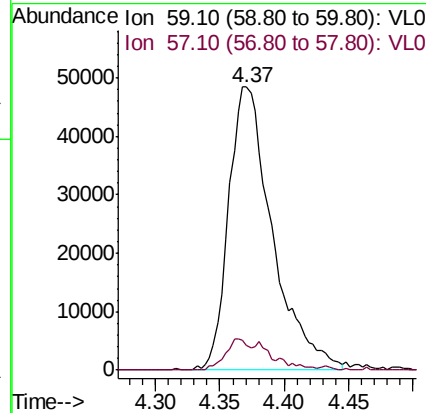
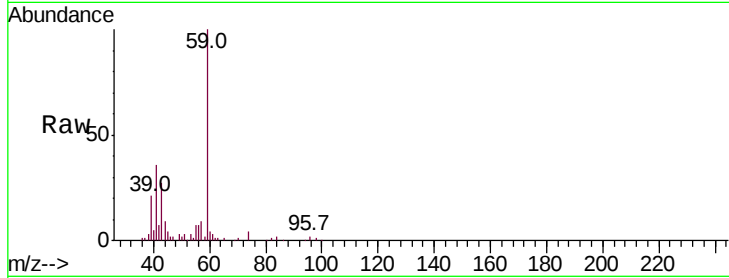
tert-Butyl alcohol
Concen: 0.992 ppbv
RT: 4.37 min Scan# 446
Delta R.T. 0.02 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

Instrument :
MSVOA_L
ClientSampled :
S-02

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.3	8.4	12.6

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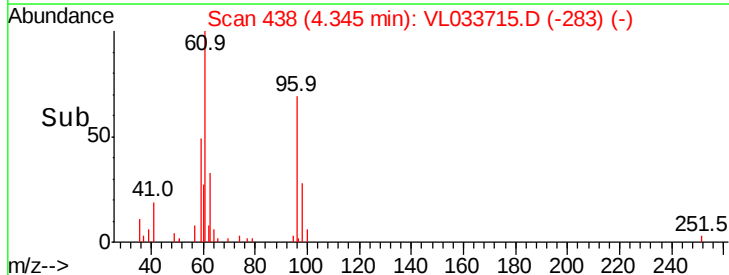
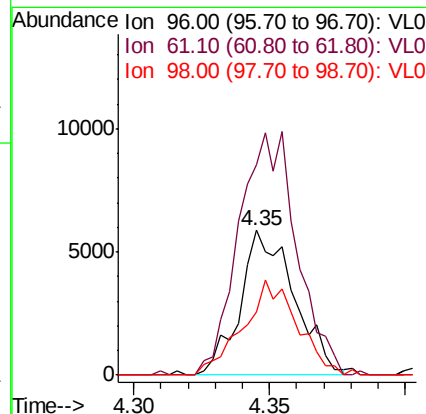
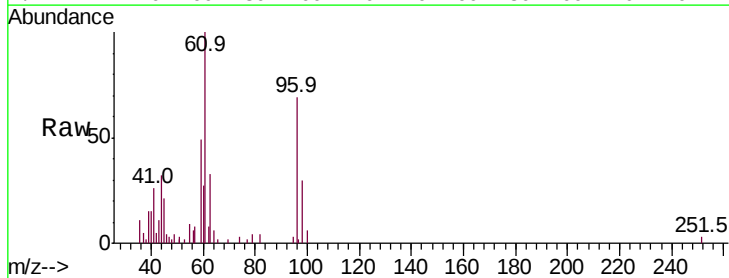
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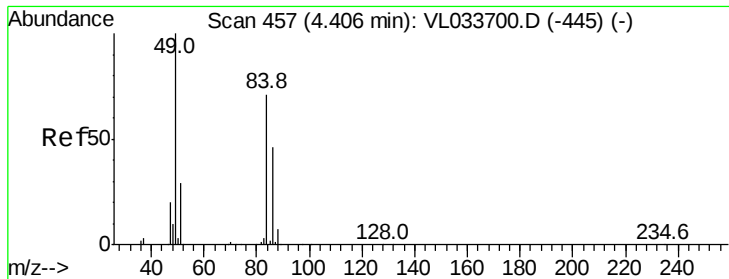


#18

1,1-Dichloroethene
Concen: 0.134 ppbv m
RT: 4.35 min Scan# 438
Delta R.T. -0.00 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

Tgt Ion	Ratio	Lower	Upper
96	100		
61	145.6	143.1	214.7
98	43.9	49.5	74.3#





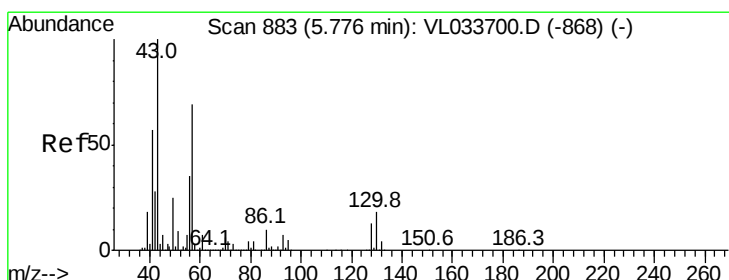
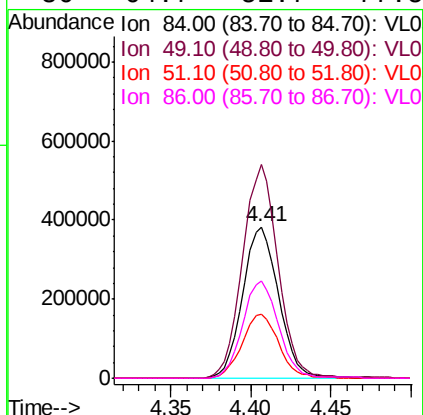
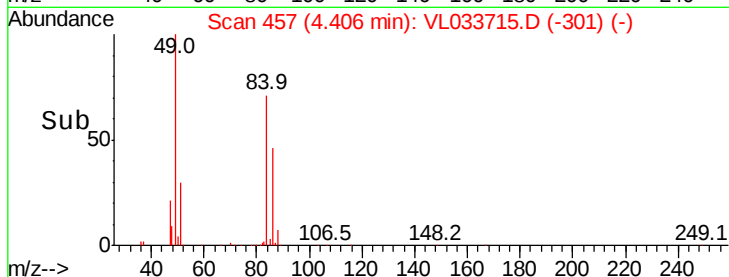
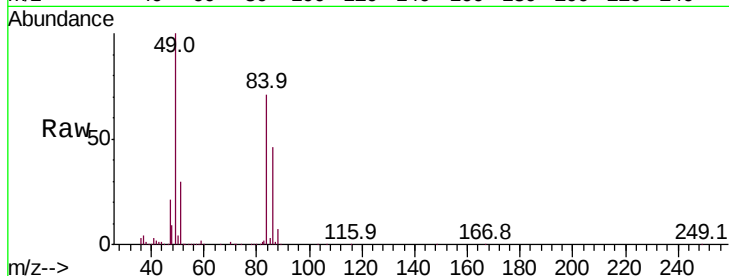
#20
Methvlene Chloride
Concen: 10.657 ppbv
RT: 4.41 min Scan# 457
Delta R.T. 0.00 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

Instrument :
MSVOA_L
ClientSampleId :
S-02

Tot Ion	84	Resp	585185
Ion	Ratio	Lower	Upper
84	100		
49	141.1	112.8	169.2
51	42.3	33.4	50.0
86	64.7	51.7	77.5

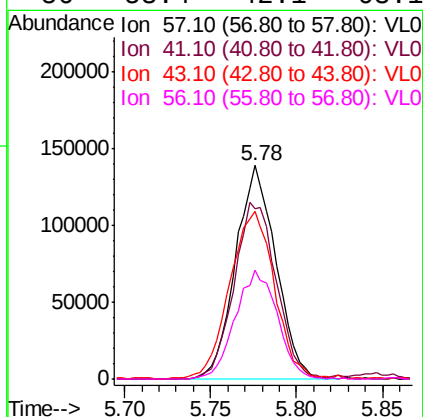
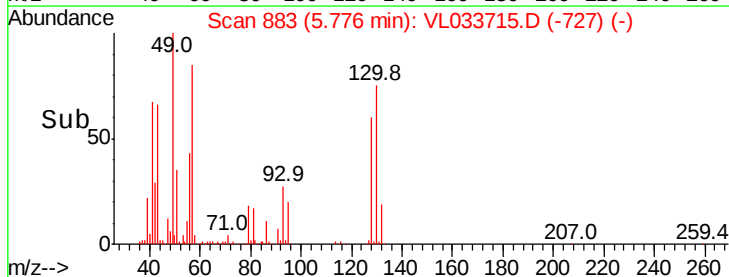
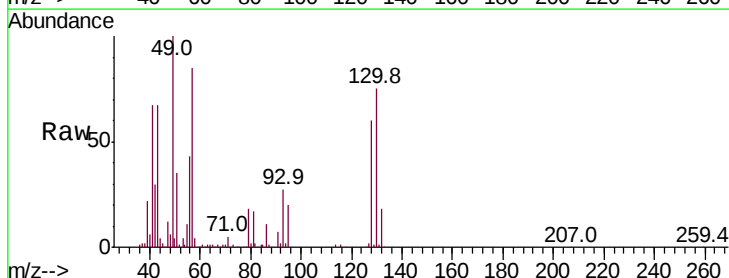
Manual Integrations
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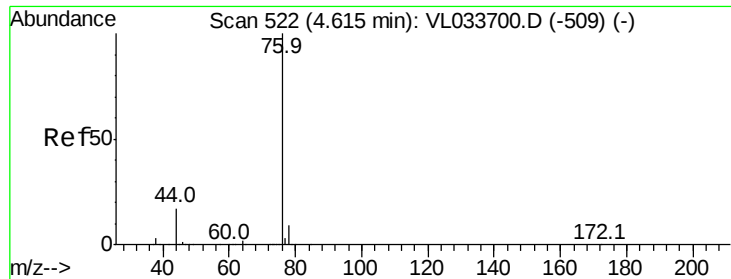
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#26
Hexane
Concen: 2.096 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

Tgt Ion	57	Resp	225722
Ion	Ratio	Lower	Upper
57	100		
41	87.0	69.8	104.6
43	89.0	181.8	272.6#
56	53.4	42.1	63.1





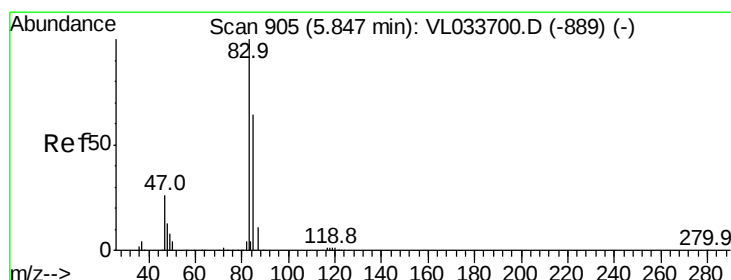
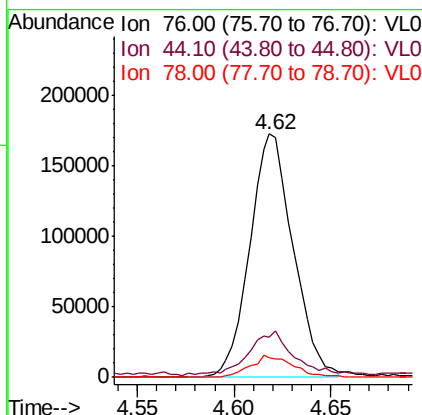
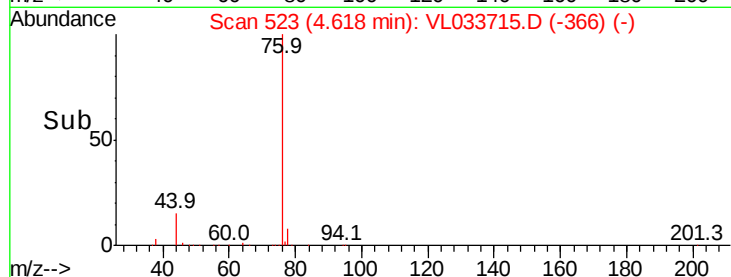
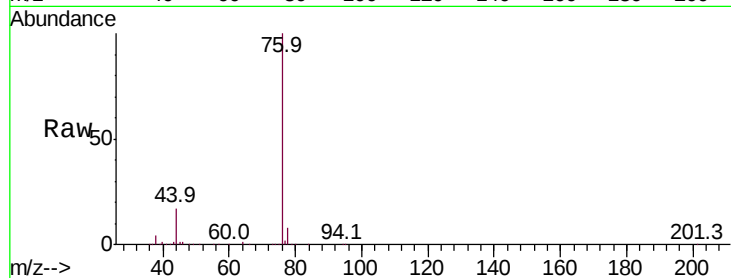
#27
Carbon Disulfide
Concen: 1.819 ppbv
RT: 4.62 min Scan# 523
Delta R.T. 0.00 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

Instrument :
MSVOA_L
ClientSampleId :
S-02

Tot Ion	Ratio	Lower	Upper
76	100		
44	18.6	13.8	20.8
78	9.1	7.4	11.0

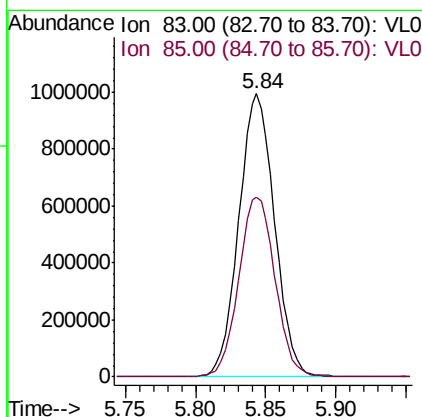
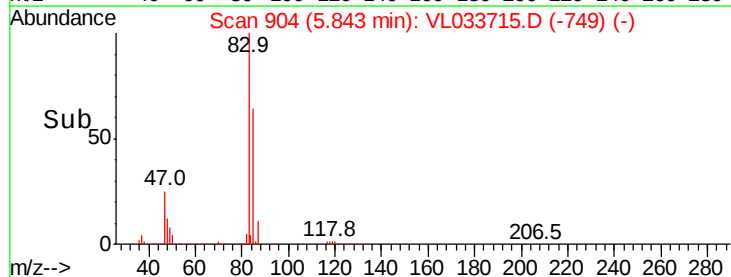
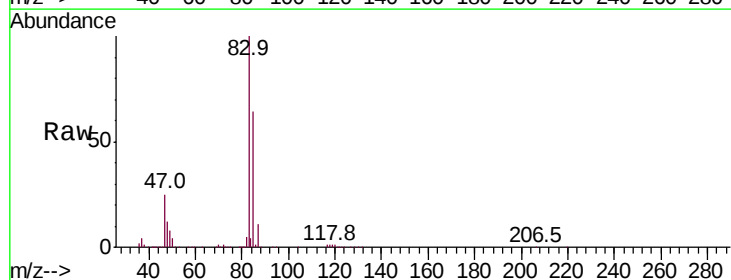
Manual Integrations
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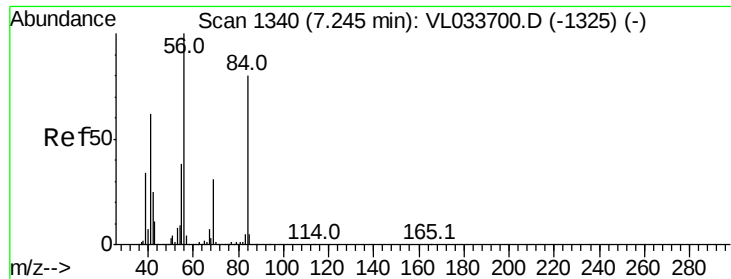
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#29
Chloroform
Concen: 8.908 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.5	77.3





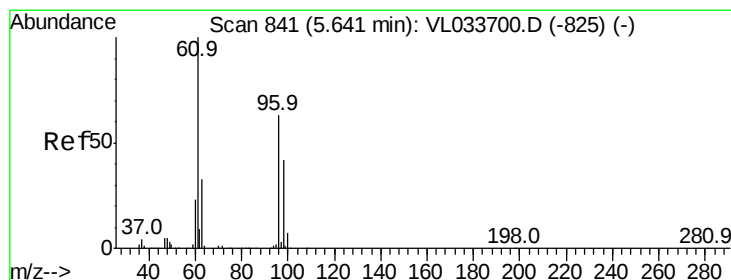
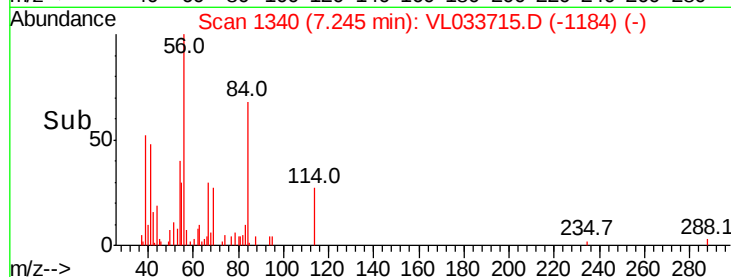
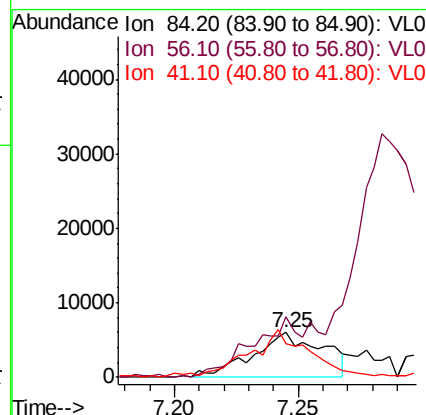
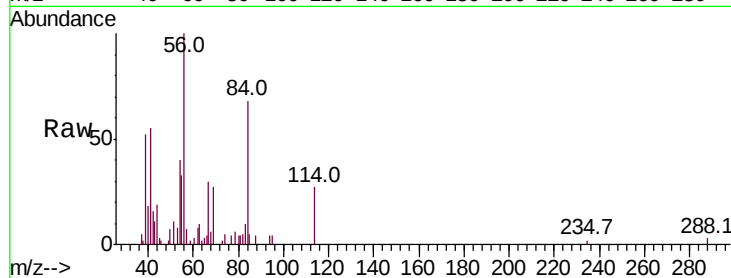
#30
Cyclohexane
Concen: 0.130 ppbv m
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

Instrument :
MSVOA_L
ClientSampleId :
S-02

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	107.7	161.5#
41	97.3	66.0	99.0

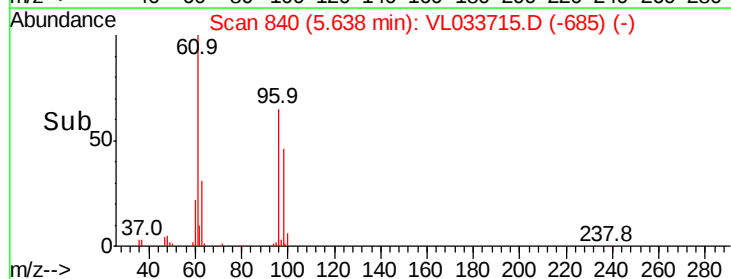
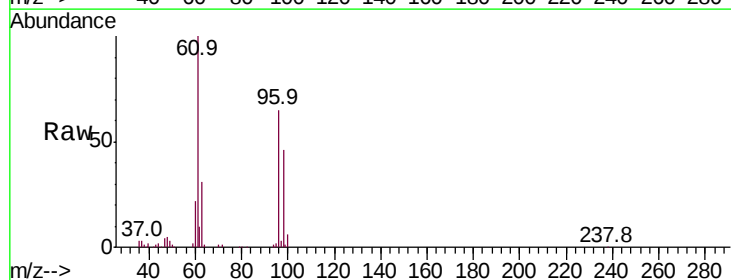
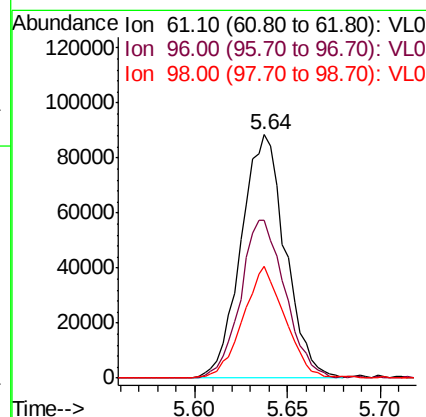
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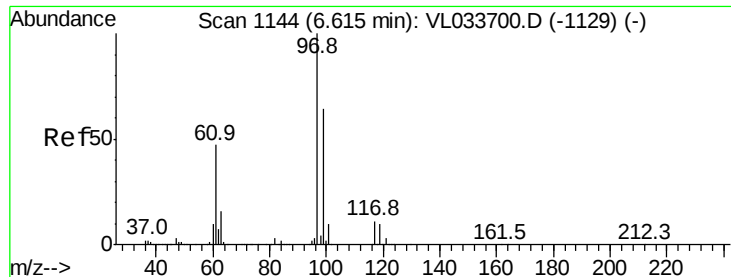
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#31
cis-1,2-Dichloroethene
Concen: 1.374 ppbv
RT: 5.64 min Scan# 840
Delta R.T. -0.00 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

Tgt Ion	Ratio	Lower	Upper
61	100		
96	64.8	50.8	76.2
98	46.1	33.3	49.9





#32

1,1,1-Trichloroethane

Concen: 0.088 ppbv

RT: 6.61 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Instrument :

MSVOA_L

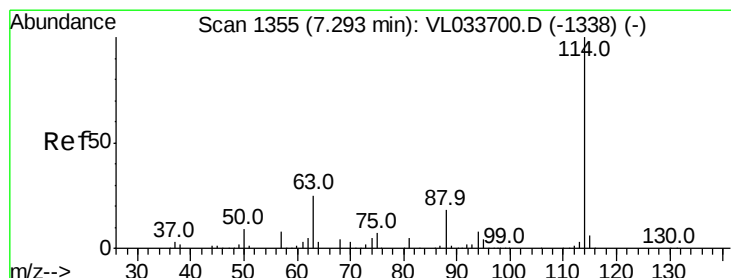
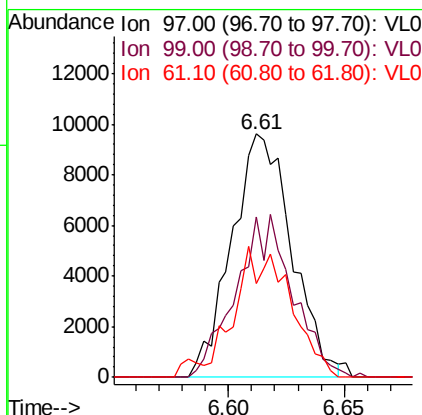
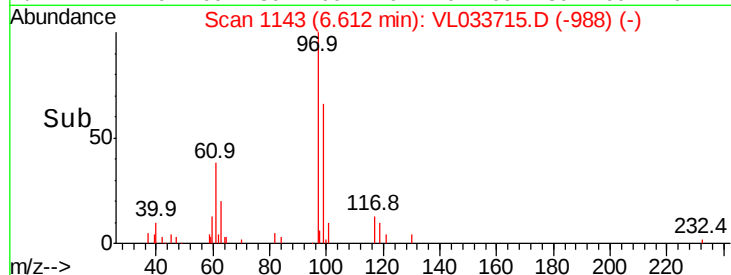
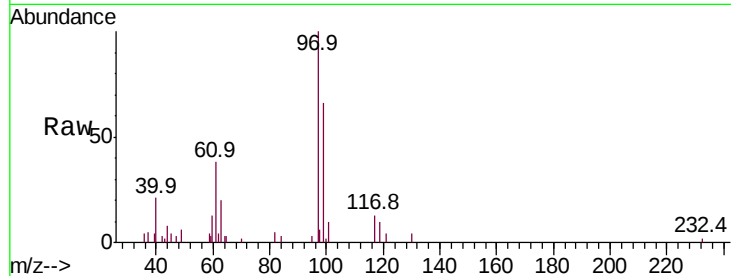
ClientSampled :

S-02

Tot Ion:	97	Resp:	17352
Ion	Ratio	Lower	Upper
97	100		
99	62.9	51.5	77.3
61	51.3	37.8	56.8

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

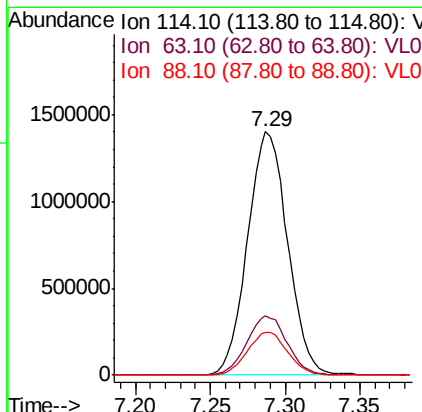
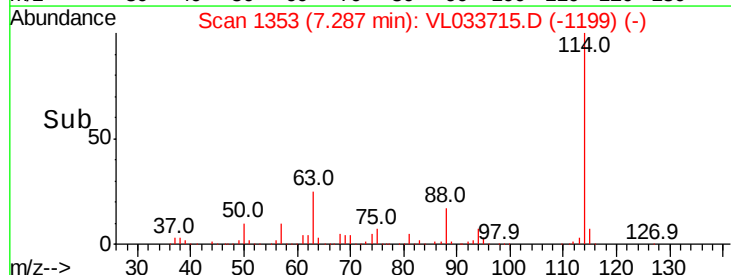
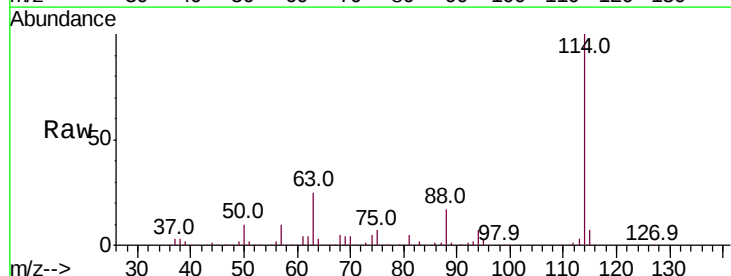
RT: 7.29 min Scan# 1353

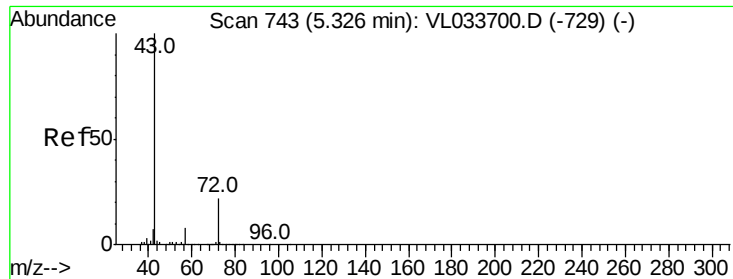
Delta R.T. -0.01 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Tgt Ion:	114	Resp:	2615096
Ion	Ratio	Lower	Upper
114	100		
63	24.4	20.9	31.3
88	17.6	14.3	21.5





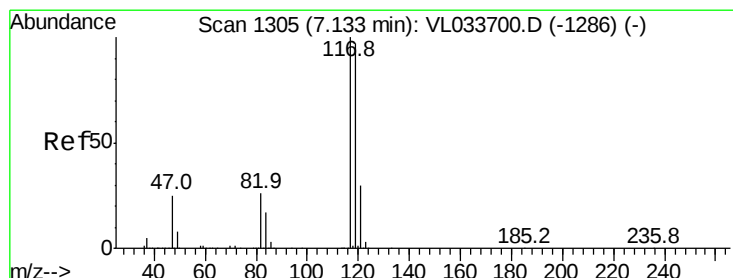
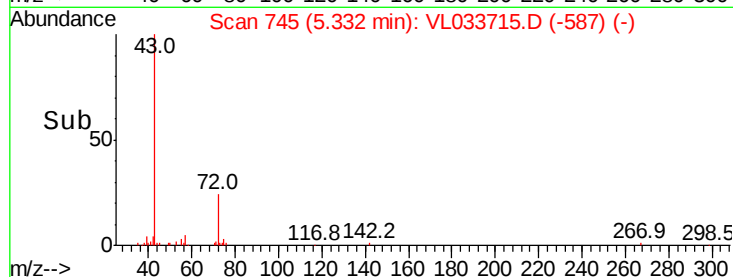
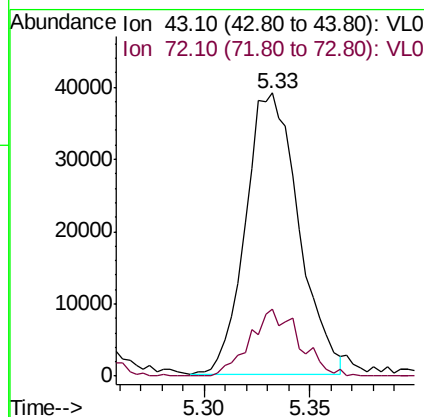
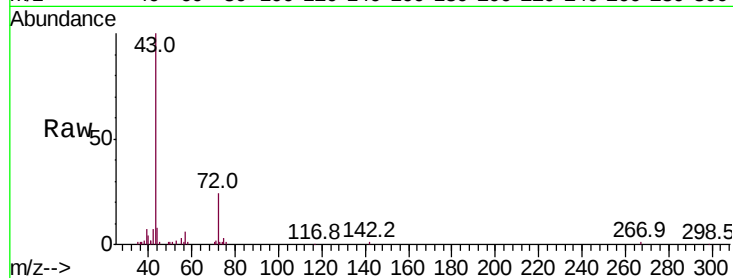
#34
2-Butanone
Concen: 0.419 ppbv
RT: 5.33 min Scan# 745
Delta R.T. 0.01 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

Instrument :
MSVOA_L
ClientSampleId :
S-02

Tot Ion: 43 Resp: 67863
Ion Ratio Lower Upper
43 100
72 22.1 17.8 26.6

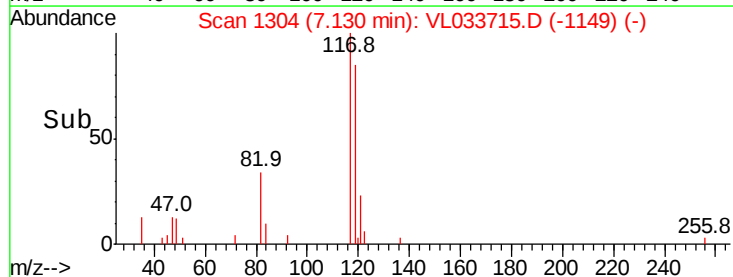
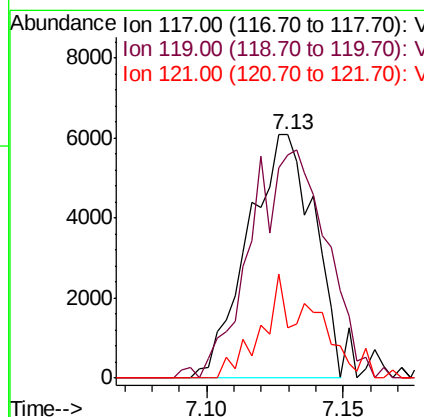
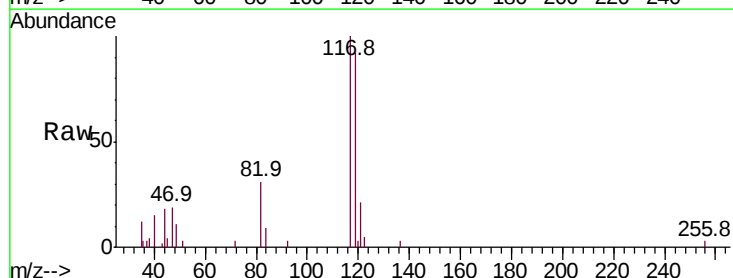
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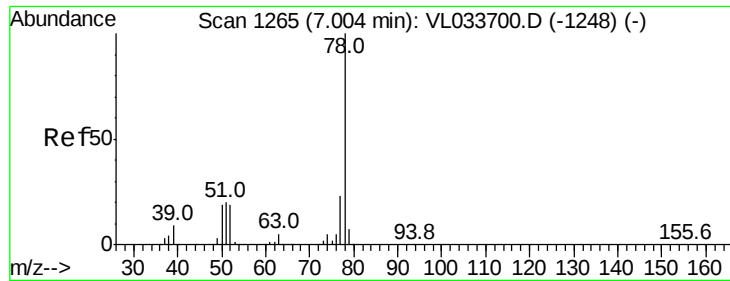
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#35
Carbon Tetrachloride
Concen: 0.049 ppbv
RT: 7.13 min Scan# 1304
Delta R.T. -0.00 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

Tgt Ion: 117 Resp: 10201
Ion Ratio Lower Upper
117 100
119 90.0 77.2 115.8
121 20.7 24.1 36.1#





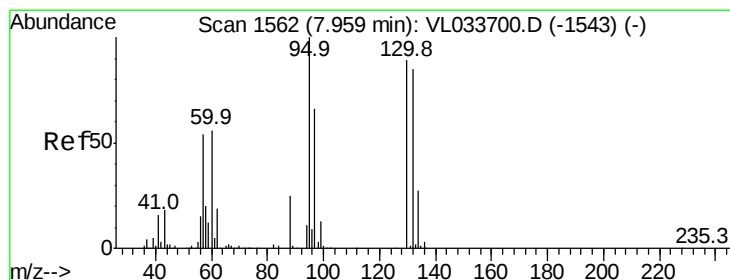
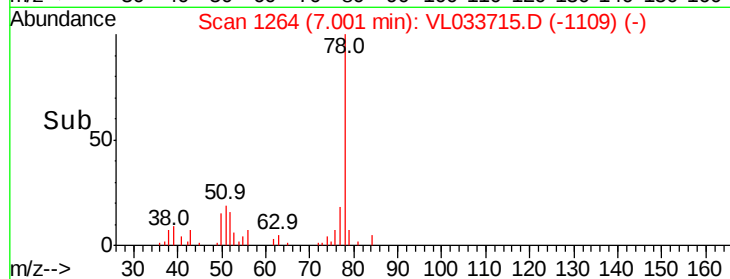
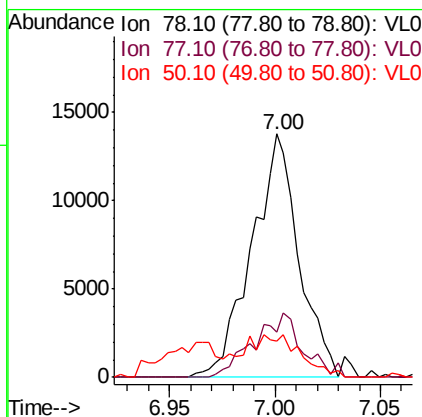
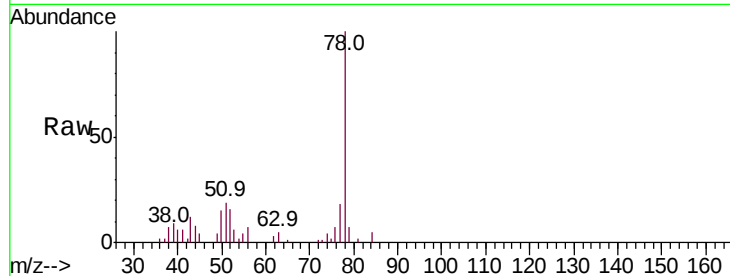
#36
Benzene
Concen: 0.090 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

Instrument :
MSVOA_L
ClientSampleId :
S-02

Tot Ion	Ratio	Lower	Upper
78	100		
77	18.3	18.4	27.6#
50	12.1	15.5	23.3#

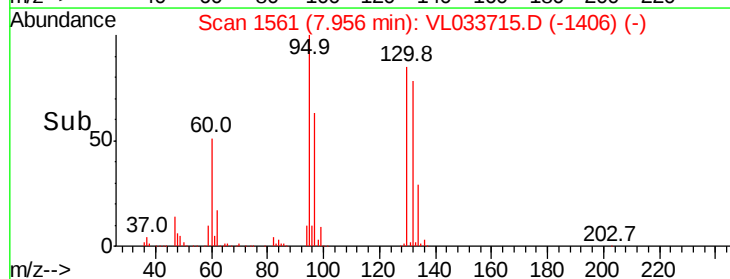
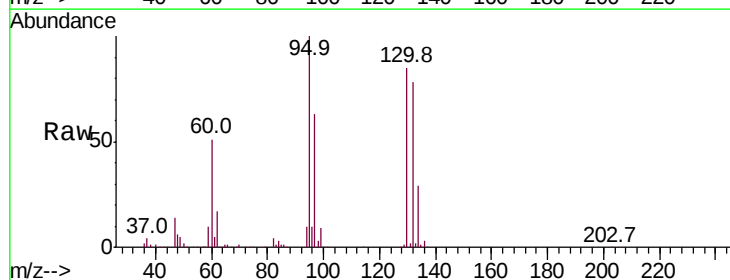
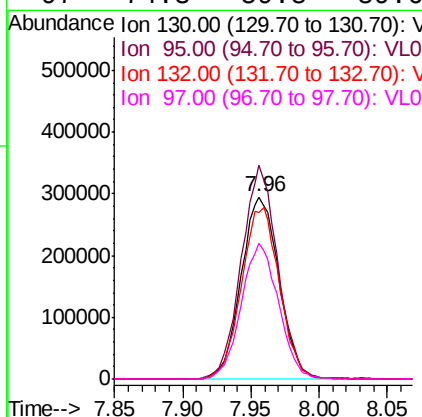
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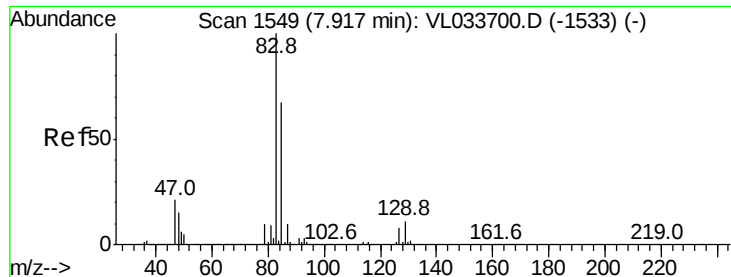
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#38
Trichloroethene
Concen: 6.445 ppbv
RT: 7.96 min Scan# 1561
Delta R.T. -0.00 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

Tgt Ion	Ratio	Lower	Upper
130	100		
95	117.3	90.2	135.4
132	90.9	76.4	114.6
97	74.3	59.8	89.6





#42

Bromodichloromethane

Concen: 0.447 ppbv

RT: 7.91 min Scan# 1548

Delta R.T. -0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Instrument :

MSVOA_L

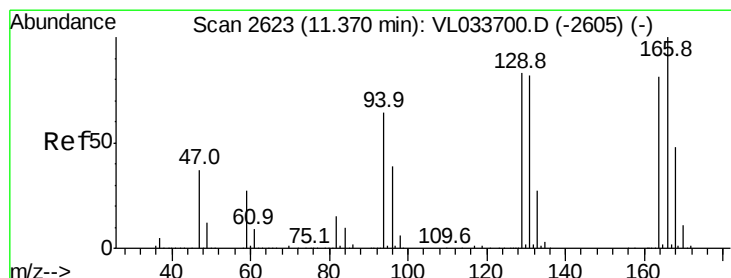
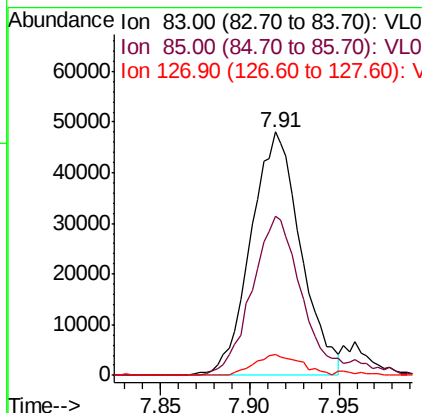
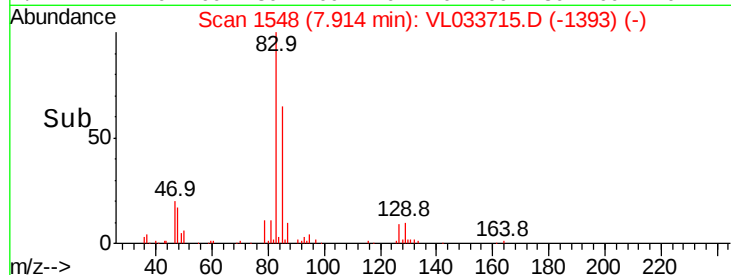
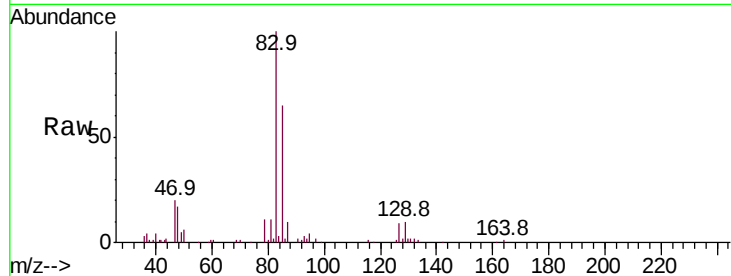
ClientSampleId :

S-02

Tot Ion:	83	Resp:	93939
Ion	Ratio	Lower	Upper
83	100		
85	65.3	53.3	79.9
127	8.7	6.5	9.7

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#52

Tetrachloroethene

Concen: 0.163 ppbv

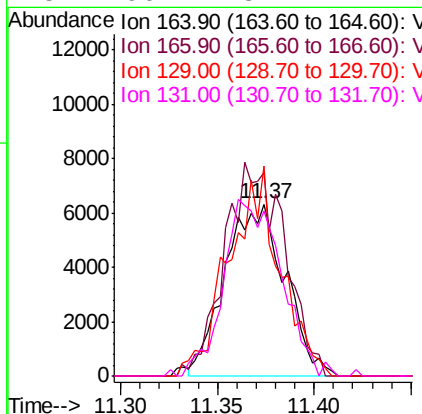
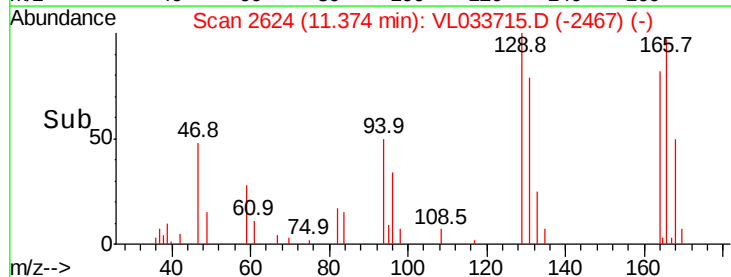
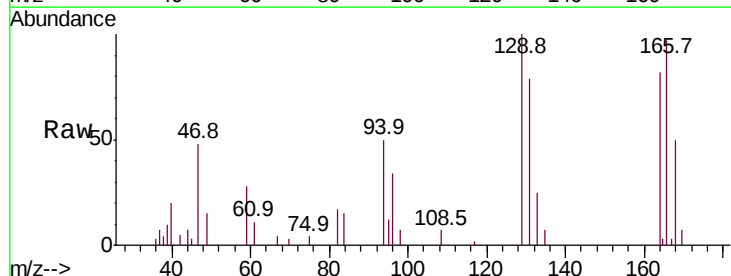
RT: 11.37 min Scan# 2624

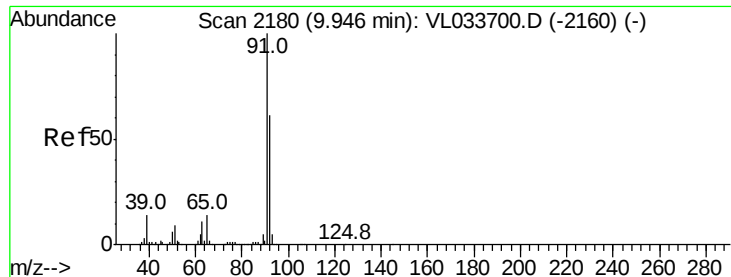
Delta R.T. 0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Tgt Ion:	164	Resp:	13626
Ion	Ratio	Lower	Upper
164	100		
166	118.3	98.9	148.3
129	122.6	81.8	122.6
131	96.4	81.1	121.7





#53

Toluene

Concen: 0.339 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Instrument :

MSVOA_L

ClientSampleId :

S-02

Tot Ion: 91 Resp: 87046

Ion Ratio Lower Upper

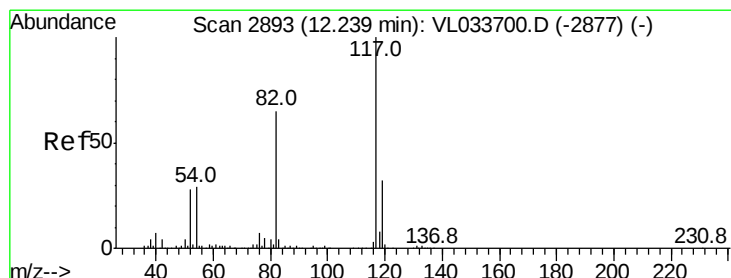
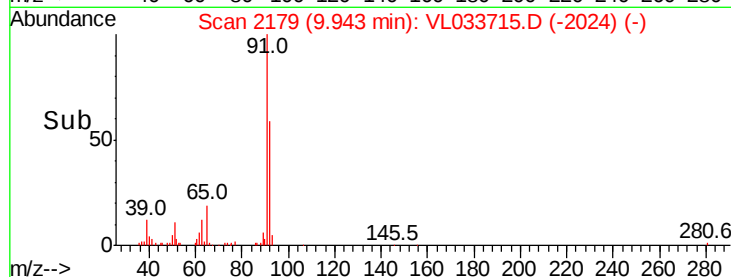
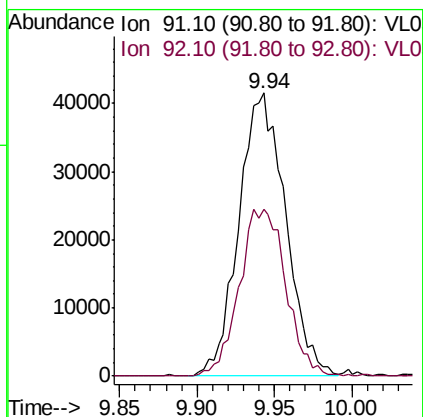
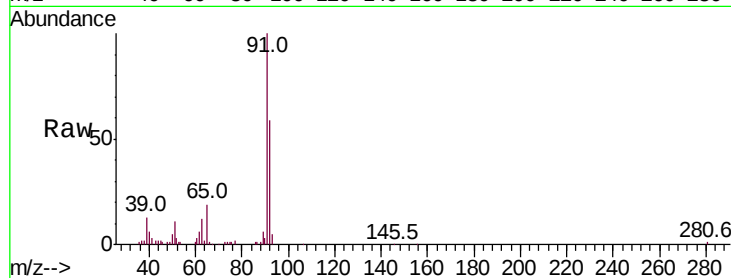
91 100

92 58.9 47.6 71.4

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

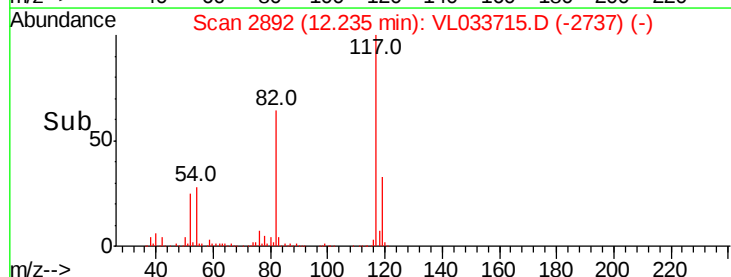
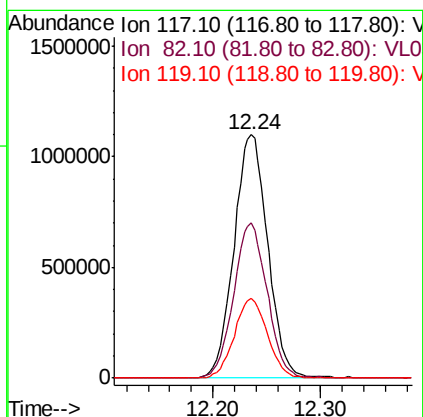
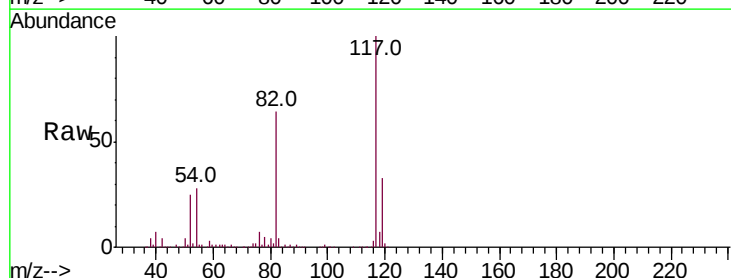
Tgt Ion: 117 Resp: 2396703

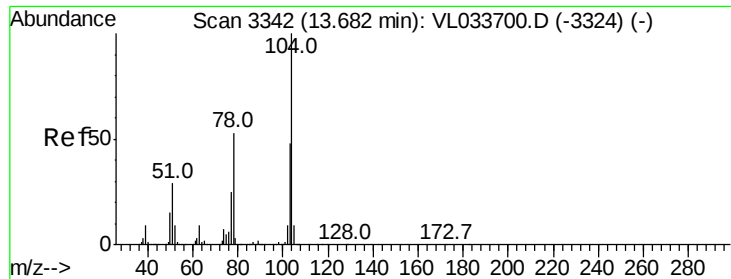
Ion Ratio Lower Upper

117 100

82 63.8 49.4 74.0

119 32.5 24.9 37.3





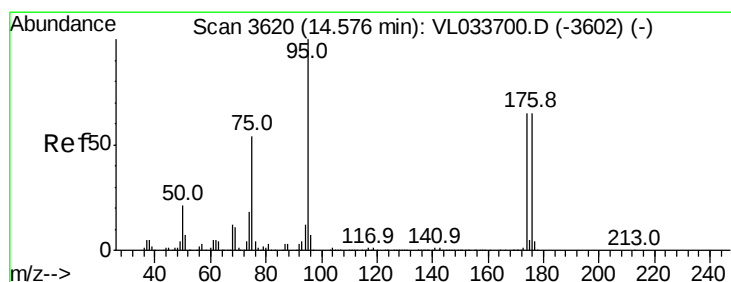
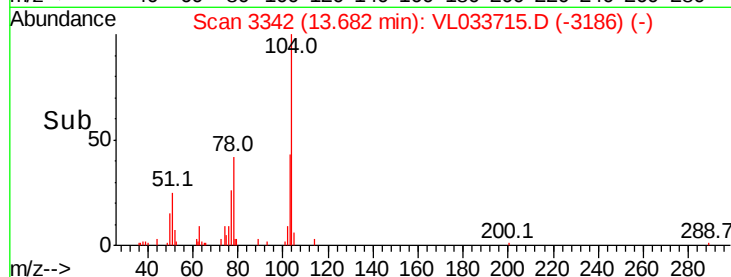
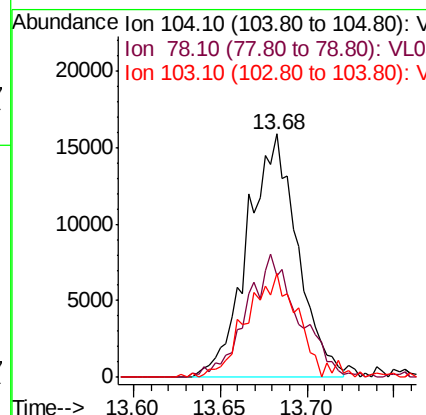
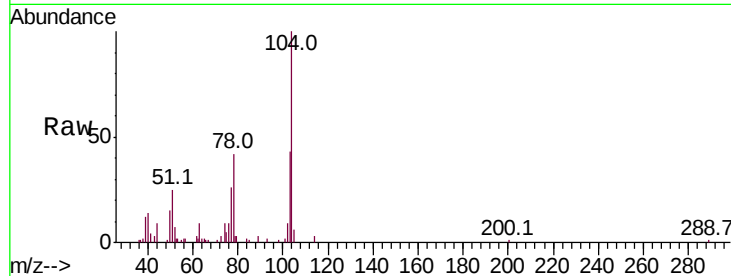
#61
Stvrene
Concen: 0.169 ppbv m
RT: 13.68 min Scan# 3342
Delta R.T. 0.00 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

Instrument :
MSVOA_L
ClientSampleId :
S-02

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.6	64.0
103	45.6	37.8	56.6

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#68
1-Bromo-4-Fluorobenzene
Concen: 10.130 ppbv
RT: 14.57 min Scan# 3618
Delta R.T. -0.01 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

Tgt Ion	Ratio	Lower	Upper
95	100		
174	69.2	53.9	80.9
175	4.9	3.8	5.8

